



**PATERSON
GROUP**

August 16, 2022
File: PE5280-LET.01

Jennings Real Estate
18 Louisa Street
Ottawa, Ontario
K1R 6Y6

Attention: **Mr. Kenneth Jennings**

Subject: **City Comments (File No. D02-02-22-0032)**
Phase I-Environmental Site Assessment
3750 Bowesville Road North
Ottawa, Ontario

Dear Sir,

Paterson Group (Paterson) has prepared this letter in response to the Comments issued by the City of Ottawa (City) regarding the Zoning By-Law Amendment Application for the property addressed, 3750 Bowesville Road North. Specifically, the responses addressed herein pertaining to the City's comment regarding the Phase I Environmental Site Assessment (Comments 7.1 and 7.2).

Phase I ESA Comments

Comment 7.1.

Due to the proposed land use change from a commercial use (banquet hall) to a residential use, filing an RSC is required.

Paterson Response 7.1.

Paterson acknowledges this requirement and intends to file the RSC for the Phase I Property.

Consulting Engineers

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Geotechnical Engineering
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Comment 7.2.

As per the O.Reg. 153/04, the Phase I ESA shall clearly indicate if the filing an RSC can be done based on the current Phase I ESA only. The Phase I ESA shall be revised as such.

Paterson Response 7.2.

The Phase I ESA has been revised, indicating that an RSC is recommended based on the findings of the Phase I ESA.

We trust this information satisfies your requirements.

Paterson Group Inc.

Mandy Witteman, M.A.Sc., P.Eng.

Karyn Munch, P.Eng., QP_{ESA}



Attachment:

- ☐ Revised Phase I ESA report (PE5280-1R)
- ☐

Report Distribution:

- ☐ Jennings Real Estate
- ☐ Paterson Group



Phase I Environmental Site Assessment

3750 Bowesville Road North
Ottawa, Ontario

Prepared for Jennings Real Estate

Report: PE5280-1R
August 28, 2022

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Jennings Real Estate to conduct a Phase I-Environmental Site Assessment (ESA) for the property addressed 3750 Bowesville Road North, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property was initially developed circa 1945 for commercial purposes and redeveloped in the early 1980s with the present-day banquet hall. No potentially contaminating activities (PCAs) were identified with the Phase I Property.

The historical use of the surrounding lands consisted primarily residential developments, a golf course and some commercial. A retail fuel outlet located at 3705 Riverside Drive was identified approximately 150 m north of the Phase I Property. Based on the separation distance, this PCA is not considered to represent an area of potential environmental concern (APEC) on the Phase I Property. No other PCAs were identified with the former use of the neighbouring lands.

Following the historical research, a site visit was conducted. The Phase I Property is occupied by a 2-storey banquet hall surrounded by an asphaltic concrete parking lot. No PCAs were identified with the current use of the Phase I Property. Neighbouring lands consisted of residential and commercial properties. No new off-site PCAs were identified with the current use of the surrounding lands.

Based on the findings of the assessment, **it is our opinion that a Phase II-Environmental Site Assessment is not required for the subject property.**

Recommendations

It is our understanding that the Phase I Property will be redeveloped for residential purposes, and as such, a Record of Site Condition (RSC) will be filed based on the findings of the Phase I ESA.

1.0 INTRODUCTION

At the request of Jennings Real Estate, Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) for the property located at 3750 Bowesville Road North, in the City of Ottawa, Ontario, herein referred to as the Phase I Property. The purpose of this Phase I-ESA was to research the past and current use of the Phase I Property and properties within the Phase I ESA Study Area to identify any potentially contaminating activities that would result in areas of potential environmental concern on the Phase I Property.

Paterson was engaged to conduct this Phase I-ESA by Mr. Kenneth Jennings from Jennings Real Estate. The head office is located at 18 Louisa Avenue, Ottawa, Ontario. Mr. Jennings can be reached by telephone at (613) 668-3459.

This report has been prepared specifically and solely for the above noted project which is described herein. It contains all of our findings and results of the environmental conditions at this site.

This Phase I-ESA report has been prepared under the supervision of a Qualified Person, in general accordance with Ontario Regulation (O.Reg.) 153/04, as amended, under the Environmental Protection Act, and also complies with the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I-ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

2.0 PHASE I PROPERTY INFORMATION

Address:	3750 Bowesville Road North, Ottawa, Ontario
Legal Description:	Part of Lot 4, Concession 2 from Rideau Front (Gloucester), now in the City of Ottawa.
Location:	The site is located on the west side of Bowesville Road North, approximately 90 m south of Uplands Drive, in the City of Ottawa, Ontario. Refer to Figure 1 - Key Plan in the Figures section following the text.
Latitude and Longitude:	45° 20' 27.53" N, 75° 41' 21.92" W

Site Description:

Configuration:	Irregular
Area:	6,838 m ² (approximately)
Zoning:	GM –General Mixed-Use Zone.
Current Use:	The Phase I Property is currently occupied by a 2-storey banquet hall constructed circa 1980s, surrounded by an asphaltic concrete paved parking lot.
Services:	The Phase I Property is situated in a municipally serviced area.

3.0 SCOPE OF INVESTIGATION

The scope of work for this Phase I – Environmental Site Assessment was as follows:

- ☐ Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases, and regulatory agencies;
- ☐ Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
- ☐ Conduct interviews with persons knowledgeable of current and historic operations on the subject properties, and if warranted, neighbouring properties;
- ☐ Present the results of our findings in a comprehensive report in general accordance with the requirements of O.Reg. 269/11 amending O.Reg. 153/04 made under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01;
- ☐ Provide a preliminary environmental site evaluation based on our findings;
- ☐ Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

4.0 RECORDS REVIEW

4.1 General

Phase I-ESA Study Area Determination

A radius of approximately 250 m was determined to be appropriate as a Phase I Study Area for this assignment. Properties outside the 250 m radius are not considered to have impacted the subject land, based on their significant distance from the site.

First Developed Use Determination

Based on a 1945 aerial photograph, the Phase I Property appears to have been developed with a small commercial style building. The exact year of first developed use is not known, however, for the purpose of this assessment, the first developed use of the Phase I Property was taken to be commercial in 1945.

Fire Insurance Plans

Fire Insurance Plans (FIPs) are not available for the Phase I Property or the Phase I Study Area.

City of Ottawa Street Directories

City directories were reviewed in approximately ten (10) year intervals back to the 1910.

The Phase I Property currently addressed 3750 Bowesville Road North was listed as Tudor Hall since the mid-1980s. The Phase I Property was not listed prior to the 1980s.

The directories did not identify any PCAs at the subject site however, one (1) Potentially Contaminating Activity (PCA) was identified within the Phase I Study Area. A retail fuel outlet (RFO) was located at 3705 Riverside Drive, approximately 150m north of the subject land. Based on the separation distance, this RFO is not considered to represent an APEC on the Phase I Property.

Chain of Title

Paterson verified the current land title for the Phase I Property with Read Abstracts Limited. The chain of title was received and reviewed for the Phase I Property (Part of Lot 4, Concession 2 Rideau Front, Gloucester, now in the City of Ottawa).

According to the title search, the Phase I Property was first registered by Andrew Hackett in May of 1861.

The deed was transferred over the years to various private individuals until 1976, when the property was transferred to Campeau Corporation, followed by Tudor Inn Reception Hall Ltd. in 1983. In April of 1997, the property ownership was transferred to the current property owner, F. Giammaria Holdings Inc.

No PCAs were identified during the title search reviews for the Phase I Property. A copy of the Chain of Title is provided in Appendix 1.

Plan of Survey

A survey plan was not available for review at the time of this assessment.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on April 28, 2021. No records were found in the NPRI database for properties within the Phase I Study Area.

PCB Inventory

A search of national and provincial PCB waste storage sites was conducted. No PCB waste storage sites are located within the Phase I Study Area.

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I ESA Study Area was conducted on the website of the Ontario Ministry of Natural Resources (MNR) on April 28, 2021. The search did not reveal any areas of natural significance within the Phase I ESA Study Area.

Ministry of the Environment, Conservation and Parks (MECP) Submissions

A request was submitted to the MECP FOI office for information with respect to reports related to environmental conditions for the Phase I Property as apart of this assessment. A response from the MECP received on September 2, 2021, did not identify any records pertaining to the Phase I Property. A copy of the MECP FOI response is provided in Appendix 2.

MECP Instruments

A request was submitted to the MECP Freedom of Information (FOI) office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments as apart of this assessment.

Based on the MECP FOI response, there are no records pertaining to the Phase I Property. A copy of the MECP FOI response is provided in Appendix 2.

MECP Waste Management Records

A request was submitted to the MECP FOI office for information with respect to waste management records as apart of this assessment. Based on the MECP FOI response, there are no records pertaining to the Phase I Property. A copy of the MECP FOI response is provided in Appendix 2.

MECP Incident Reports

A request was submitted to the MECP FOI office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP as apart of this assessment. Based on the MECP FOI response, there are no records pertaining to the Phase I Property. A copy of the MECP FOI response is provided in Appendix 2.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry (ESR) was conducted as part of this assessment for the site, neighbouring properties and the general area of the site. No Records of Site Condition (RSCs) were filed for the Phase I Property or properties within the Phase I Study Area.

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. No former waste disposal sites were identified within the Phase I Study Area.

MECP Coal Gasification Plant Inventory

The Ontario Ministry of Environment document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No Municipal Coal Gasification Plant Sites are located within the Phase I Study Area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto, was contacted on May 27, 2021, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties.

Based on the TSSA response, there were no TSSA related records for the subject site, however, a retail fuel outlet (RFO) is located at 3705 Riverside Drive, approximately 150 m north of the subject site. Based on the separation distance, this RFO is not considered to represent an APEC on the Phase I Property.

Environmental Risk Information Services (ERIS) Report

An ERIS (Environmental Risk Information Service) Report was obtained for the Phase I Property and properties within the study area.

According to the ERIS report, there were no records or potential environmental concerns regarding the Phase I Property.

The ERIS search identified several off-site records, which included environmental records (compliance and approvals), TSSA related records (storage tanks, incidents and spills), Ontario Waste Generators, and Scott's Manufacturing Directories. Based on the nature of these off-site PCAs identified in the ERIS, in combination with their separation distances and/or orientation with respect to the Phase I Property, these PCAs are not considered to represent APECs.

No APECs were identified during the review of the ERIS report. A copy of the ERIS report is provided in Appendix 2.

Former Industrial Sites

The report titled "Mapping and Assessment of Former Industrial Sites, City of Ottawa" prepared by Intera Technologies Limited was reviewed. No former industrial sites were identified within the Phase I Study Area.

City of Ottawa Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. No former landfills were identified within the Phase I Study Area.

City of Ottawa Historical Land Use Inventory (HLUI)

A search request for the City of Ottawa's Historical Land Use Inventory (HLUI 2005) database was requested as part of this assessment. According to the City of Ottawa's HLUI, four (4) different types of activities that were identified within the Phase I Study Area.

One particular activity (Activity ID 140790) was identified as McColl-Frontenac Oil Company Limited in 1947 on the abutting property of the Phase I Property, currently addressed 3735 Riverside Drive.

Based on the review of the aerial images from 1945, 1963 and 1965, this listed property appeared vacant and undeveloped during this that time, and as such, it is our opinion that the location of this activity was identified in error.

The remaining three (3) activities included the retail fuel outlet (RFO) at 3705 Riverside Drive, dry-cleaners operating at 3673 Riverside Drive, and a sand-gravel pit further to the south. These off-site activities are not considered PCAs that represent APECs, based on the separation and/or cross-gradient orientation of these activities relative to the Phase I Property. A copy of the HLUI response is provided in Appendix 2.

4.3 Physical Setting Sources

Aerial Photographs

Historical air photos from the National Air Photo Library were reviewed in approximate ten (10) year intervals. Based on the review, the following observations have been made:

1945	The subject site appears to be occupied by a building situated on the southeast corner of the site. Neighbouring lands to the south are occupied by a golf course while the remaining lands are occupied by agricultural lands.
1965	The subject site is occupied by a building situated on the southern portion of the site. Neighbouring lands to the south are occupied by a golf course while the remaining lands are occupied by agricultural lands.
1976	No significant changes were made to the subject site or neighbouring properties at this time.
1991	The subject site appears to have been redeveloped with the present-day commercial building, while the neighbouring lands appear unchanged from the previous photograph, with the exception of a residential development to the northeast.
2002	No significant changes were made to the subject site. Neighbouring lands immediately north and west are occupied by commercial buildings. An additional residential development can be seen further northwest of the site.
2011	No significant changes were made to the subject site or neighbouring properties at this time.

2019 The subject site and neighbouring lands appear unchanged from the previous photograph.

Copies of selected aerial photographs reviewed are included in Appendix 1.

Physiographic Maps

The Ontario Geological Survey publication 'The Physiography of Southern Ontario, Third Edition' was reviewed as a part of this assessment. According to the publication, the site is situated within the Ottawa Clay Plain physiographic region.

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic maps indicate that the regional topography in the general area of the site slopes down in a westerly direction towards the Rideau River. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area consists of interbedded shale and limestone of the Nepean Formation. The surficial geology in the area of the site consists of nearshore marine sediments with a drift thickness ranging from 10 to 15 m.

Water Well Records

A well record search was conducted on May 27, 2021 for all drilled wells within 250 m of the Phase I Property. The search returned seven (7) well records, one of which was a monitoring well and six (6) domestic wells. No well records were identified on the Phase I Property.

One monitoring well record was identified at the retail fuel outlet (RFO) at 3705 Riverside Drive, approximately 150 m north of the subject land. Based on the separation distance, this RFO is not considered to pose any risk to the Phase I Property.

The remaining domestic well records were located more than 100 m away from the Phase I Property. These wells were drilled between 1950 and 1975 to a maximum depth of 64 m below the existing grade. It is expected that these domestic wells are no longer in use as the area is municipally serviced.

Based on the well records identified in the immediate area of the Phase I Property, the stratigraphy consisted of clay, underlain by limestone bedrock. Bedrock was encountered at approximately 5 m below the existing ground surface (mgbs). No other information was provided in the well records. A copy of the well records has been included in Appendix 2.

Areas of Natural Significance

No areas of natural significance were identified in the Phase I ESA Study Area.

Water Bodies

No natural bodies were identified in the Phase I ESA Study Area.

5.0 INTERVIEWS

Property Owner Representatives

Mr. Joe Giammaria, the current landowner of the Phase I Property since the mid-1980s was interviewed as part of this assessment during the site visit on May 25, 2021. Based on the information provided by the Mr. Giammaria, the Phase I Property was first developed in 1960 with a dance hall and upgraded in the mid-1980s with the present-day reception and conference hall. The subject building has always been heated using natural gas and electrical baseboard as a secondary source. Mr. Giammaria is not aware of any potential environmental concerns regarding the Phase I Property. Any other pertinent information obtained during the interview has been included in the relevant sections of this report.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted on May 25, 2021. Ms. Mandy Witteman from the Environmental Department of Paterson conducted the site assessment. In addition to the site, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site visit.

6.2 Specific Observations at the Phase I Property

Buildings and Structures

A 2-storey with basement commercial building constructed circa 1985 occupies the central portion of the Phase I Property. The building exterior is finished in brick with a flat tar and gravel style roof.

The building is heated and cooled by a natural gas fired HVAC roof mounted units with electrical baseboard heaters for secondary heating.

Site Features

The majority of the Phase I Property exists as an asphaltic concrete paved parking lot with catchbasins located along the northern, eastern, southern and western sections of the parking lot.

The site topography is relatively flat and at the grade of the adjacent streets. Site drainage consists of sheetflow to catchbasin located on-site. The regional topography slopes down in a north-westerly direction.

Access to the site is located from Bowesville Road North. No evidence of current or former railway or spur lines was observed on the Phase I Property at the time of the site visit. No areas of stained pavement or unidentified substances were observed on-site at this time. No chemicals or signs of an underground storage tank (UST) or above ground storage tank (AST) were noted at the time of the site visit.

Subsurface Services and Utilities

The Phase I Property is situated in a municipally serviced area. Underground utilities, both public and private are present on the Phase I Property.

Neighbouring Properties

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection. Land use adjacent to the subject site is as follows:

- ☐ North: Parkade (commercial), followed by Uplands Drive;
- ☐ South: Golf course, followed by Hunt Club Road;
- ☐ East: Bowesville Road North, followed by a golf course; and
- ☐ West: Commercial office building, followed by Riverside Drive.

Land use within the Phase I Study Area (250 m radius) is primarily used for residential and commercial purposes. Surrounding land use is shown on Drawing PE5280-2 – Surrounding Land Use Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The current and past use of the Phase I Property has been summarized in Table 1.

Table 1: Land Use History – 3750 Bowesville Road North Part of Lot 4, Concession 2 Rideau Front (PIN: 04056-0281)				
Time Period	Name of Owner	Property Use	Description of Property Use	Other Observations from Aerial Photos, FIPs, etc.
Prior to 1859	Unknown	Unknown	Unknown	None available
1859-1861	Andrew Hackett	Unknown	Unknown	None available
1861-1887	Armstrong Hackett	Unknown	Unknown	None available
1887-1912	Gabriel Dowler	Unknown	Unknown	None available
1912-1951	William and George Dowler	Commercial style building	Commercial Use	1945 aerial photograph shows a small commercial style building on-site.
1951-1955	Bertrand Dowler	Commercial style building	Commercial Use	None available
1955-1959	Bertrand and Minerva Dowler, Marjorie Gow, Minerva Kellam	Commercial style building	Commercial Use	None available
1959-1969	Harold Dowler (estate)	Commercial style building	Commercial Use	1965 aerial photograph shows a recreational building and track on-site.
1969-1975	Timothy Rivers and Wayne Benedict (estate)	Commercial – recreational use	Commercial Use	None available
1975	Timothy Rivers	Commercial – recreational use	Commercial Use	None available
1975	Kenneth Maundrell	Commercial – recreational use	Commercial Use	None available
1975-1976	Franco Giammaria, in trust	Commercial – recreational use	Commercial Use	1976 aerial photograph shows a recreational building and track on-site.
1976-1997	Tudor Inn Reception Hall Ltd.	Commercial – recreational use Reception Hall	Commercial Use	1993 aerial photograph shows the present-day reception hall on-site.
1997-present	F. Giammaria Holdings Inc.	Reception Hall	Commercial Use	Based on aerial images from 2001 to 2019 and a personal interview with the current landowner.

**Table 1: Land Use History – 3750 Bowesville Road North
Part of Lot 4, Concession 2 Rideau Front (PIN:04056-0281)**

Time Period	Name of Owner	Property Use	Description of Property Use	Other Observations from Aerial Photos, FIPs, etc.
Prior to 1859	Unknown	Unknown	Unknown	None available
1859-1861	Andrew Hackett	Unknown	Unknown	None available
1861-1887	Armstrong Hackett	Unknown	Unknown	None available
1887-1912	Gabriel Dowler	Unknown	Unknown	None available
1912-1951	William and George Dowler	Commercial style building	Commercial Use	1945 aerial photograph shows that the Phase I Property is occupied by a commercial style building.
1951-1955	Bertrand Dowler	Commercial style building	Commercial Use	None available
1955-1969	Bertrand and Minerva Dowler, Marjorie Gow, Minerva Kellam	Commercial – recreational use	Commercial Use	1965 aerial photograph shows a recreational building and track on-site.
1960-1961	Marjorie Gow and Minerva Kellam	Commercial – recreational use	Commercial Use	None available
1961-1983	Campeau Corporation	Commercial – recreational use	Commercial Use	1976 aerial photograph shows a recreational building and track on-site.
1983-1997	Tudor Inn Reception Hall Ltd.	Commercial – recreational use Reception Hall	Commercial Use	1993 aerial photograph shows the present-day reception hall on-site.
1997-present	F. Giammaria Holdings Inc.	Reception Hall	Commercial Use	Based on aerial images from 2001 to 2019 and a personal interview with the current

Potentially Contaminating Activities

Based on the historical review and current use of the neighbouring lands, one potentially contaminating activity (PCA) was identified on the Phase I Property.

- ☐ PCA Other – “Use of Road Salt,” associated vehicular and pedestrian road safety on the asphaltic paved concrete parking lot of the western half of the Phase I Property.

Although not identified as per the O.Reg 153/04, Table 2, the application of deicing salts on the Phase I Property is considered a PCA.

In accordance with Section 49.1 of O.Reg. 153/04, the application of road salt is not considered a PCA that would result in an APEC on the Phase I Property, if the application of road salt was applied to the surface of the parking lot and laneway for the safety of vehicular and pedestrian traffic under conditions of ice and/or snow. Therefore, this on-site PCA is exempted.

Other potentially contaminating activities (PCAs) that were not considered to result in APECs based on their separation distances and/or orientations (down or cross-gradient) with respect to the Phase I Property. The off-site PCAs within the Phase I Study Area that do not represent APECs are identified in green on Drawing PE5280-2– Surrounding Land Use Plan.

Areas of Potential Environmental Concern

Based on the findings of this assessment, there are no PCAs that resulted in APECs on the Phase I Property.

Contaminants of Potential Concern

Based on the findings of this assessment, there are no APECs and as such, there are no Contaminants of Potential Concern (CPCs) on or beneath the Phase I Property.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

According to the Geological Survey of Canada website, the bedrock in the area of the Phase I Property is reported to consist of interbedded shale and limestone of the Nepean Formation. The surficial geology in the area of the site consists of nearshore marine sediments with a drift thickness ranging from 10 to 15 m.

The groundwater beneath the Phase I Property is anticipated to flow in a north-westerly direction.

Areas of Natural Significance

No areas of natural significance were identified in the Phase I ESA Study Area.

Water Bodies

No natural bodies were identified in the Phase I ESA Study Area.

Drinking Water Wells and Monitoring Wells

There are no known potable water wells on the Phase I Property, nor are they expected to be present as the subject land is situated in a municipally serviced area.

Existing Buildings and Structures

A 2-storey with basement commercial building constructed circa 1985 occupies the central portion of the Phase I Property. The building exterior is finished in brick with a flat tar and gravel style roof. The building is heated and cooled by a natural gas fired HVAC roof mounted units with electrical baseboard heaters for secondary heating.

Subsurface Structures and Utilities

The Phase I Property is situated in a municipally serviced area. Underground utilities, both public and private are present on the Phase I ESA

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area consists primarily of residential and commercial (offices and a retailer) properties.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, there are no PCAs that resulted in APECs on the Phase I Property.

Contaminants of Potential Concern

There are no contaminants of potential concern (CPCs) in soil or groundwater.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of the Phase I- ESA is considered to be sufficient to conclude that there are no PCAs that have resulted in APECs on the Phase I Property.

A variety of independent sources were consulted as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSIONS

8.1 Assessment

Paterson Group was retained by Jennings Real Estate to conduct a Phase I-Environmental Site Assessment (ESA) for the property addressed 3750 Bowesville Road North, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property was initially developed circa 1945 for commercial purposes and redeveloped in the early 1980s with the present-day banquet hall. No potentially contaminating activities (PCAs) were identified with the Phase I Property.

The historical use of the surrounding lands consisted primarily residential developments, a golf course and some commercial. A retail fuel outlet located at 3705 Riverside Drive was identified approximately 150 m north of the Phase I Property. Based on the separation distance, this PCA is not considered to represent an area of potential environmental concern (APEC) on the Phase I Property. No other PCAs were identified with the former use of the neighbouring lands.

Following the historical research, a site visit was conducted. The Phase I Property is occupied by a 2-storey banquet hall surrounded by an asphaltic concrete parking lot. No PCAs were identified with the current use of the Phase I Property. Neighbouring lands consisted of residential and commercial properties. No new off-site PCAs were identified with the current use of the surrounding lands.

Based on the findings of the assessment, **it is our opinion that a Phase II-Environmental Site Assessment is not required for the subject property.**

8.2 Recommendations

It is our understanding that the Phase I Property will be redeveloped for residential purposes, and as such, a Record of Site Condition (RSC) will be filed based on the findings of the Phase I ESA.

9.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared under the supervision of a Qualified Person, in general accordance with O.Reg. 153/04, as amended, and meets the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I - ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

Should any conditions be encountered at the subject site and/or historical information that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

This report was prepared for the sole use of Jennings Real Estate. Permission and notification from the above noted parties and Paterson will be required to release this report to any other party.

Paterson Group Inc.



Mandy Witteman, M.A.Sc., P.Eng.



Karyn Munch, P.Eng., QP_{ESA}



Report Distribution:

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- ☐ Paterson Group

10.0 REFERENCES

Federal Records

Air photos at the Energy Mines and Resources Air Photo Library.
National Archives.
Maps and photographs (Geological Survey of Canada surficial and subsurface mapping).
Natural Resources Canada – The Atlas of Canada.
Environment Canada, National Pollutant Release Inventory.
PCB Waste Storage Site Inventory.

Provincial Records

MECP Freedom of Information and Privacy Office.
MECP Municipal Coal Gasification Plant Site Inventory, 1991.
MECP document titled “Waste Disposal Site Inventory in Ontario”.
MECP Brownfields Environmental Site Registry.
Office of Technical Standards and Safety Authority, Fuels Safety Branch.
MNR Areas of Natural Significance.
MECP Water Well Record Inventory.
Chapman, L.J., and Putnam, D.F., 1984: ‘The Physiography of Southern Ontario, Third Edition’, Ontario Geological Survey Special Volume 2.

Municipal Records

City of Ottawa Document “Old Landfill Management Strategy, Phase I - Identification of Sites.”, prepared by Golder Associates, 2004.
Intera Technologies Limited Report “Mapping and Assessment of Former Industrial Sites, City of Ottawa”, 1988.
geoOttawa: City of Ottawa electronic mapping website.
City of Ottawa Historical Land Use Inventory (HLUI) Database

Local Information Sources

Personal Interviews.

Public Information Sources

Google Earth.
Google Maps/Street View.

Private Information Sources

ERIS Report

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE5280-1 – SITE PLAN

DRAWING PE5280-2 – SURROUNDING LAND USE PLAN

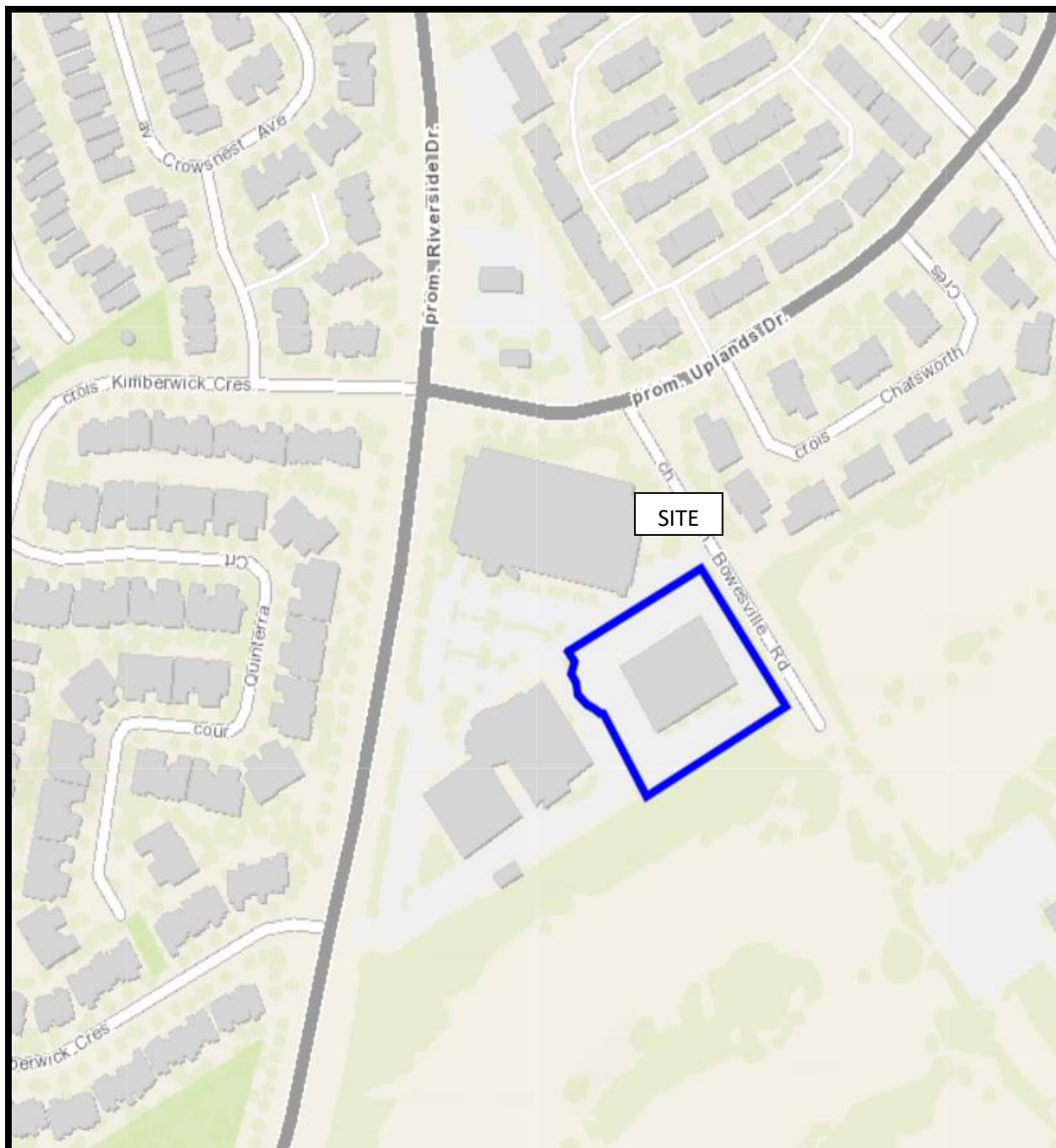


FIGURE 1
KEY PLAN

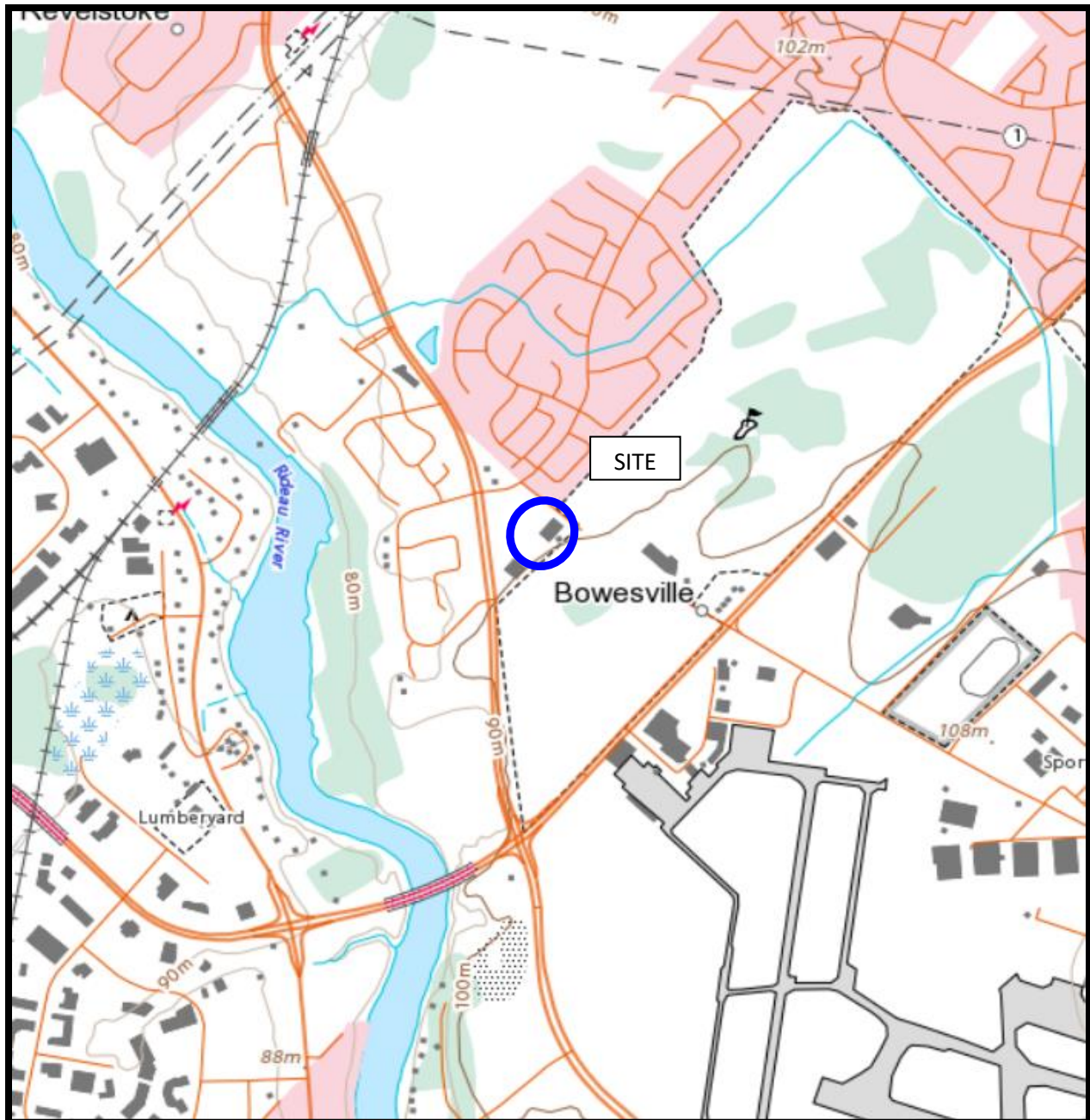
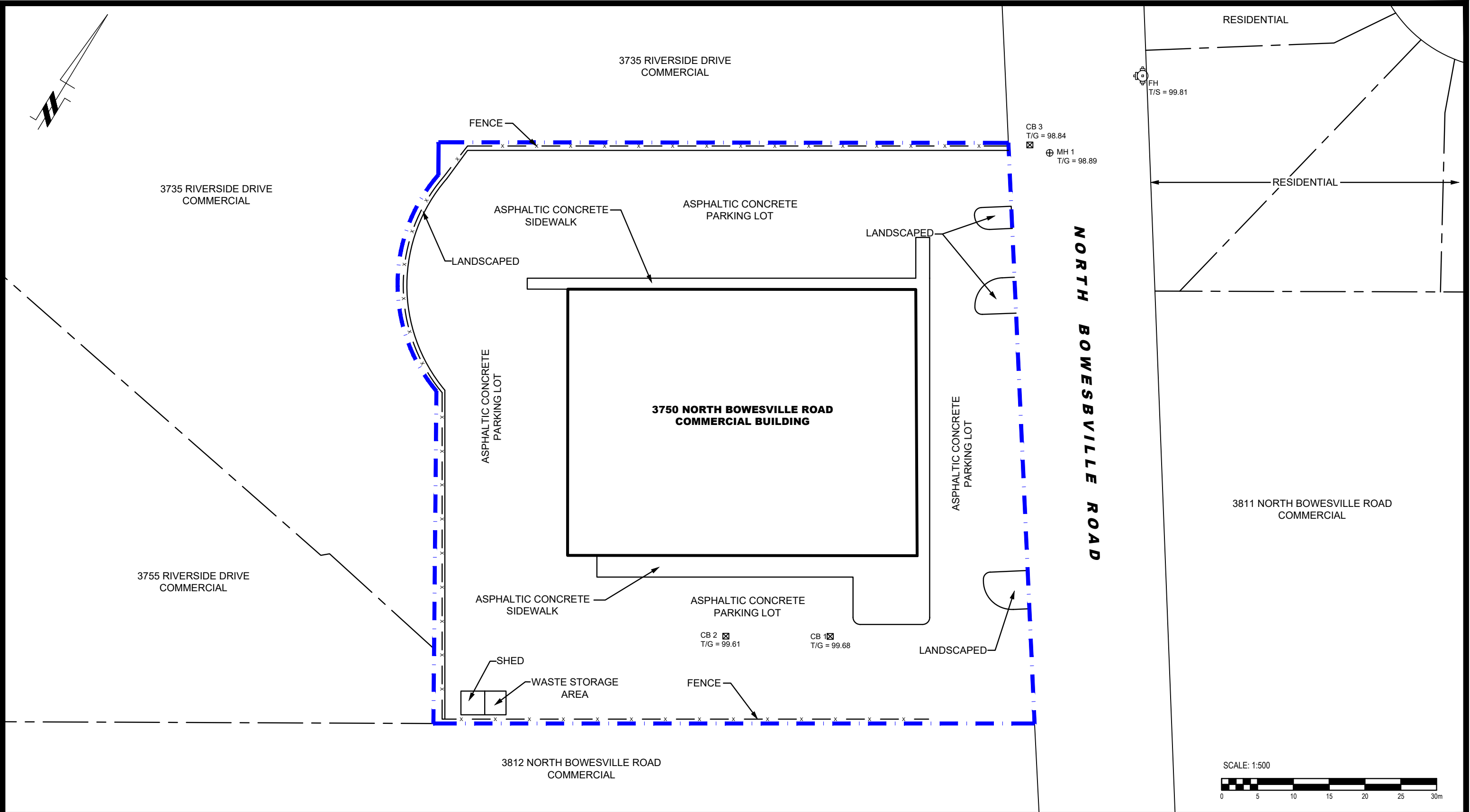


FIGURE 2
TOPOGRAPHIC MAP



patersongroup
consulting engineers

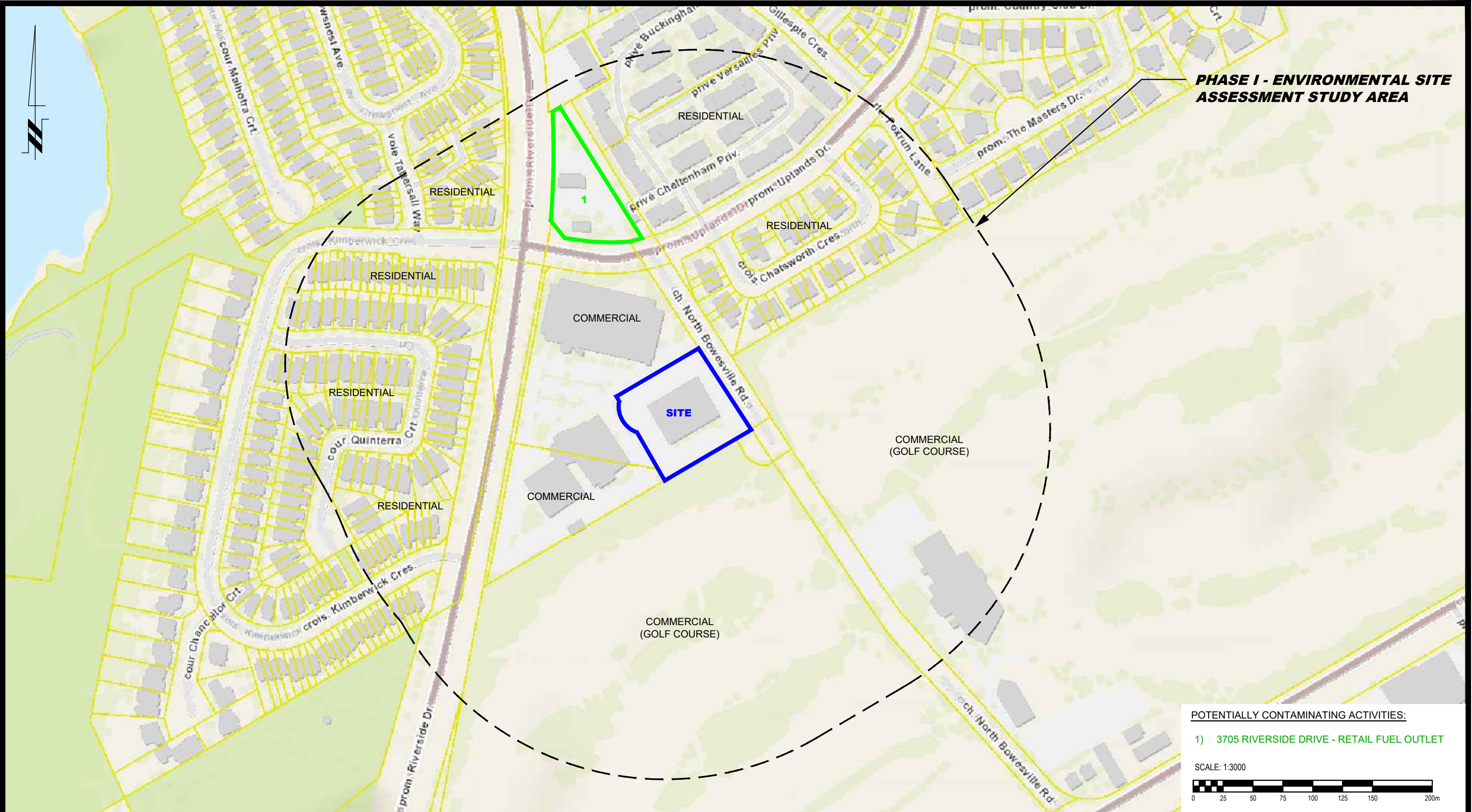
154 Colonnade Road South
Ottawa, Ontario K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

NO.	REVISIONS	DATE	INITIAL

JENNINGS REAL ESTATE	
PHASE I - ENVIRONMENTAL SITE ASSESSMENT	
3750 NORTH BOWESVILLE ROAD	
OTTAWA,	ONTARIO
Title:	SITE PLAN

Scale:	1:500	Date:	05/2021
Drawn by:	JM	Report No.:	PE5280-1
Checked by:	MW	Dwg No.:	PE5280-1
Approved by:	MSD	Revision No.:	

p:\autocad\drawings\environmental\pe52\pe5280\pe5280-1-site plan.dwg



PHASE I - ENVIRONMENTAL SITE ASSESSMENT STUDY AREA

POTENTIALLY CONTAMINATING ACTIVITIES:
1) 3705 RIVERSIDE DRIVE - RETAIL FUEL OUTLET
SCALE: 1:3000
0 25 50 75 100 125 150 200m

patersongroup
consulting engineers

154 Colonnade Road South
Ottawa, Ontario K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

NO.	REVISIONS	DATE	INITIAL

JENNINGS REAL ESTATE
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
3750 NORTH BOWESVILLE ROAD
OTTAWA, ONTARIO

Title:
SURROUNDING LAND USE PLAN

Scale:	1:3000	Date:	05/2021
Drawn by:	JM	Report No.:	PE5280-1
Checked by:	MW	Dwg No.:	PE5280-2
Approved by:	MSD	Revision No.:	

p:\autocad\drawings\environmental\pe5280\pe5280-2-surrounding land use plan.dwg

APPENDIX 1

CHAIN OF TITLE

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



READ Abstracts Limited

331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4

Email: search@readsearch.com

Tel.: 613-236-0664

Fax: 613-236-3677

ENVIRONMENTAL SEARCH

Paterson Group
Attn: Mandy Witteman

BRIEF DESCRIPTION OF LAND:

3750 Bowesville Rd. N., Ottawa
Part Lot 4, Concession 2 RF Gloucester

PIN: 04056-0281

LAST REGISTERED OWNER: F. Giammaria Holdings Inc.

CHAIN OF TITLE:

Patent registered Dec 5, 1859
To Andrew Hackett

Deed RO17470 registered Mar 27, 1861
From Andrew Hackett to Armstrong Hackett

Deed GL8161 registered Oct 11, 1887
From Armstrong Hackett to Gabriel Dowler

Deed GL25461 registered Dec 13, 1912
From Gabriel Dowler to William, and George Dowler

Deed GL4942 registered Mar 29, 1951
From George and William Dowler to Bertrand Dowler

Deed OT16309 registered Aug 19, 1955
From Bertrand Dowler to Bertrand Dowler, Minerva Dowler, Marjorie Gow, Minerva Kellam

Deed OT34623 registered Jan 30, 1959
From Bertrand Dowler, Minerva Dowler, Marjorie Gow, Minerva Kellam to Harold Dowler

Deed OT4255 registered Dec 30, 1960
From Bertrand Dowler, Minerva Dowler, Marjorie Gow, Minerva Kellam to Marjorie Gow and Minerva Kellam

Deed CT135874 registered Jun 17, 1961
From Marjorie Gow and Minerva Kellam to Campeau Corporation

Deed CT113953 registered Dec 1, 1969
From estate of Harold Dowler to Timothy Rivers and Wayne Benedict

Deed CT206691 registered Mar 7, 1975
From Timothy Rivers to Kenneth Maundrell

Deed CT219825 registered Nov 3, 1975
From Timothy Rivers to Kenneth Maundrell to Franco Giammaria, in trust

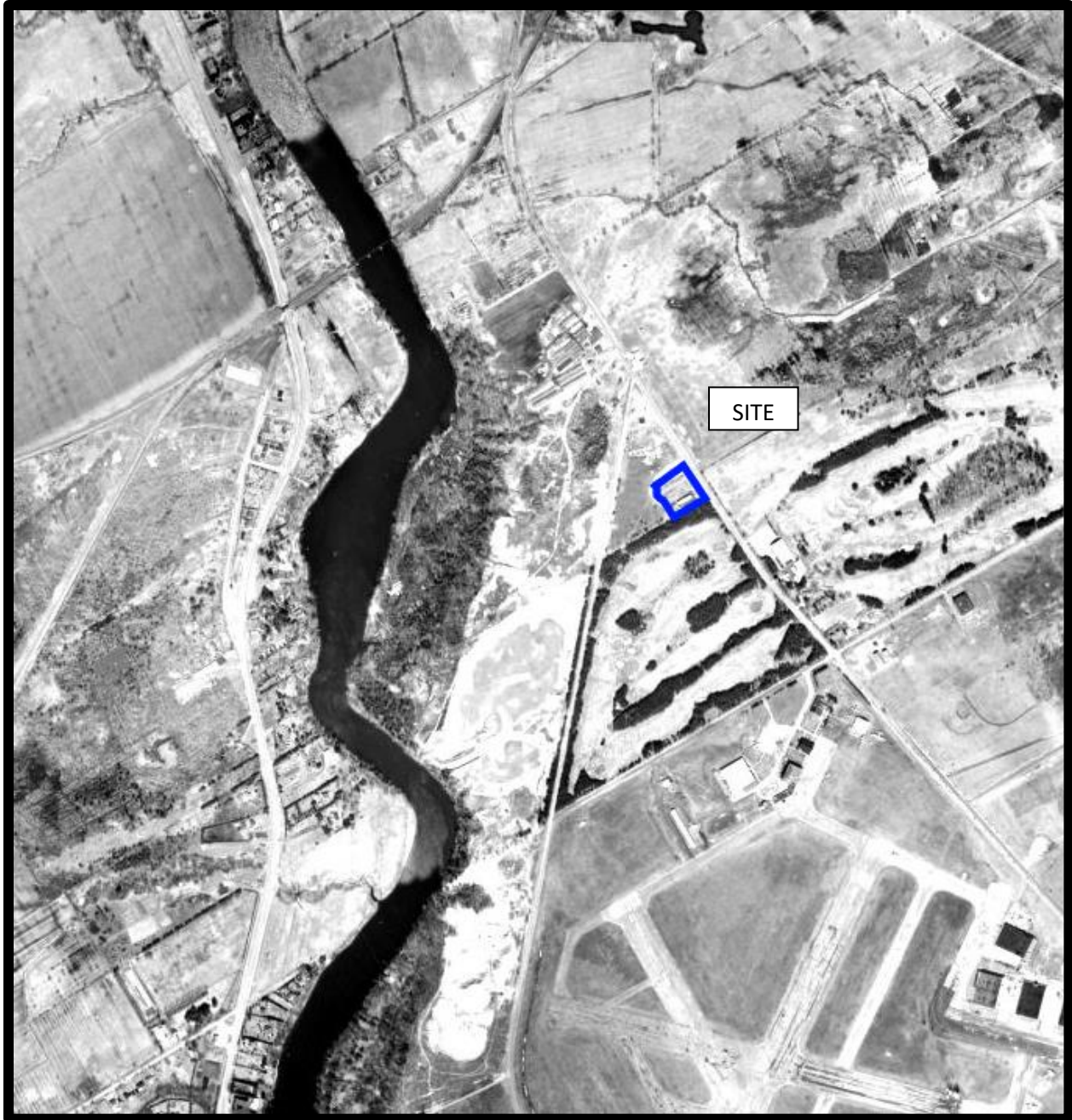
Deed CT232246 registered Jul 15, 1976
From Franco Giammaria, in trust to Tudor Inn Reception Hall Ltd.

Deed NS205267 registered Aug 19, 1983
From Campeau Corporation to Tudor Inn Reception Hall Ltd.

Name Change LT1040906 registered Apr 29, 1997
From Tudor Inn Reception Hall Ltd. to F. Giammaria Holdings Inc.



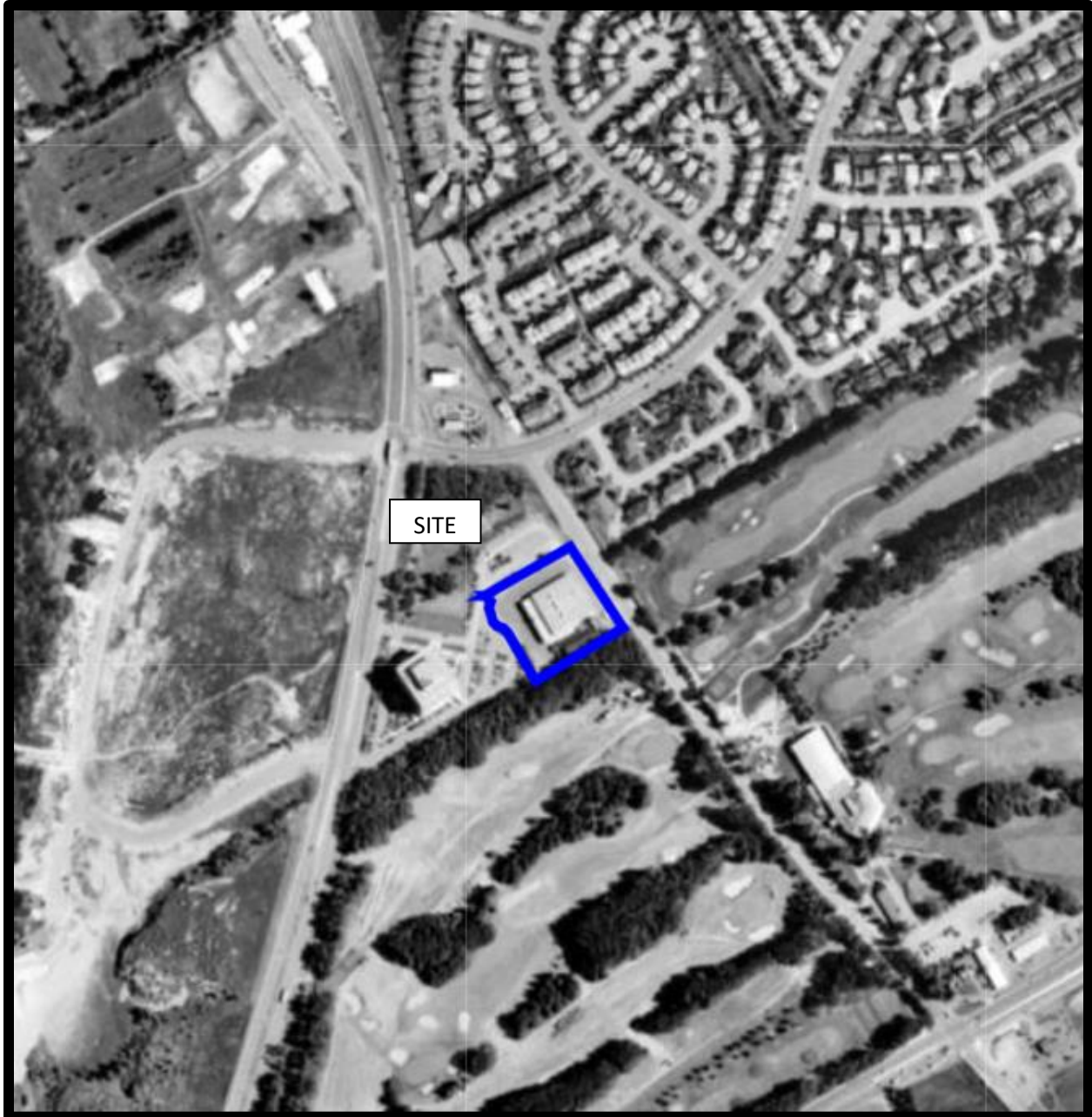
AERIAL PHOTOGRAPH
1945



AERIAL PHOTOGRAPH
1965



AERIAL PHOTOGRAPH
1976



AERIAL PHOTOGRAPH
1991



AERIAL PHOTOGRAPH
2002



AERIAL PHOTOGRAPH
2011



AERIAL PHOTOGRAPH
2019

Site Photographs

PE5280

3750 Bowesville Road North, Ottawa ON

June 1, 2021



Photograph 1: View of the southern portion of the Phase I ESA Property fronting Bowesville Road North.



Photograph 2: View of the eastern portion of the Phase I ESA Property, looking onto Riverside Drive.

APPENDIX 2

MECP FREEDOM OF INFORMATION

MECP WELL RECORDS

TSSA RESPONSE

HLUI RESPONSE

ERIS REPORT

**Ministry of the Environment,
Conservation and Parks**

Access and Privacy Office
12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075
Fax: (416) 314-4285

**Ministère de l'Environnement, de
la Protection de la nature et des
Parcs**

Bureau de l'accès à l'information et
de la protection de la vie privée
12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Téléc.: (416) 314-4285



September 2, 2021

Mandy Witteman
Paterson Group Inc.
154 Colonnade Road
Ottawa, ON K2E 7J5

Dear Mandy Witteman:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2021-01620, Your Reference 20210428132239345 / PE526x

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 3750 Bowesville Road North, Ottawa.

After a thorough search through the files of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, no records were located responsive to your request.

To conduct a search through the files of the Environmental Assessment and Permissions Branch requires an additional 5.20 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Assessment and Permissions Branch (EAPB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$156.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form>.

When remitting payment please quote our file number or attach a copy of this letter.

You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Hira Ashraf at (647) 642-9681.

Yours truly,

Noel Kent
Manager, Access and Privacy

Stay at home except for essential travel and follow the [restrictions and public health measures \(https://covid-19.ontario.ca/zones-and-restrictions\)](https://covid-19.ontario.ca/zones-and-restrictions).



Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the [Open Data catalogue \(https://data.ontario.ca/dataset/well-records\)](https://data.ontario.ca/dataset/well-records).

[Go Back to Map\(\)](#)

Well ID

Well ID Number: 7193375

Well Audit Number: C15838

Well Tag Number: A122946

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	
Township	GLOUCESTER TOWNSHIP
Lot	

Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 445900.00 Northing: 5021265.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed

Method of Construction & Well Use

Method of Construction	Well Use

--

Status of Well

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1844

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping

Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	

50	50
60	60

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: C15838

Date Well Completed: April 10, 2012

Date Well Record Received by MOE: December 11, 2012

Updated: April 30, 2021
Published: April 16, 2021

Related

How to use a Ministry of the Environment map (</page/how-use-ministry-environment-map#wells>)

Technical documentation: Metadata record (<https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77>)

[about Ontario](https://www.ontario.ca/page/about-ontario) (<https://www.ontario.ca/page/about-ontario>).

[accessibility](https://www.ontario.ca/page/accessibility) (<https://www.ontario.ca/page/accessibility>).

[news](http://news.ontario.ca/newsroom/en) (<http://news.ontario.ca/newsroom/en>).

[privacy](https://www.ontario.ca/page/privacy-statement) (<https://www.ontario.ca/page/privacy-statement>).

[terms of use](https://www.ontario.ca/page/terms-use) (<https://www.ontario.ca/page/terms-use>).

[© Queen's Printer for Ontario, 2012–21](https://www.ontario.ca/page/copyright-information-c-queens-printer-ontario) (<https://www.ontario.ca/page/copyright-information-c-queens-printer-ontario>).

Hand-drawn sketch map of the intersection of River Side Drive and Bowville Rd. The map shows River Side Drive as a vertical line on the left and Bowville Rd. as a diagonal line intersecting it. An arrow points north along River Side Drive, and another arrow points northeast along Bowville Rd. The intersection is marked with a small circle. The text "River Side Drive" is written vertically along the left line, and "Bowville Rd." is written along the diagonal line. The number "250" is written near the intersection, and "50" is written further up the diagonal line.



Ontario

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

31G 56

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

1513706

15502

CON.

COUNTY OR DISTRICT

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

CON., BLOCK, TRACT, SURVEY, ETC.

DATE COMPLETED

DAY 08 MO. 12 YR. 73

Riverside Dr. Box 2 R.R. # 5 Ottawa

20789 4 0330 4 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	sand		packed	0	30
gray	"	stones		30	65
gray	"	boulders		65	80
gray	hardpan	boulders		80	103
gray	sandstone		med. hard	103	160
gray	limestone		med. hard	160	210

31 003062879 0065228124 0080228113 0103214113 01402187873 02102157873

32

41 WATER RECORD	
WATER FOUND AT - FEET	KIND OF WATER
0180	☒ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
0205	☒ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL

51 CASING & OPEN HOLE RECORD			
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
10-11	1 ☒ STEEL	188	0
11-12	2 ☐ GALVANIZED		110
12-13	3 ☐ CONCRETE		210
13-14	4 ☐ OPEN HOLE		210
14-15	1 ☐ STEEL		210
15-16	2 ☐ GALVANIZED		210
16-17	3 ☐ CONCRETE		210
17-18	4 ☐ OPEN HOLE		210
18-19	1 ☐ STEEL		210
19-20	2 ☐ GALVANIZED		210
20-21	3 ☐ CONCRETE		210
21-22	4 ☐ OPEN HOLE		210

61 PLUGGING & SEALING RECORD	
DEPTH SET AT - FEET	MATERIAL AND TYPE
FROM TO	(CEMENT GROUT, LEAD PACKER, ETC.)
10-13	14-17
18-21	22-25
26-29	30-33

71 PUMPING TEST	
PUMPING TEST METHOD	PUMPING RATE
1 ☐ PUMP 2 ☒ BAILER	000 5 GPM
STATIC LEVEL	WATER LEVEL END OF PUMPING
027	115
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING
☐ SHALLOW ☒ DEEP	200

FINAL STATUS OF WELL	
1 ☒ WATER SUPPLY	5 ☐ ABANDONED, INSUFFICIENT SUPPLY
2 ☐ OBSERVATION WELL	6 ☐ ABANDONED, POOR QUALITY
3 ☐ TEST HOLE	7 ☐ UNFINISHED
4 ☐ RECHARGE WELL	
WATER USE	
1 ☐ DOMESTIC	5 ☒ COMMERCIAL
2 ☐ STOCK	6 ☐ MUNICIPAL
3 ☐ IRRIGATION	7 ☐ PUBLIC SUPPLY
4 ☐ INDUSTRIAL	8 ☐ COOLING OR AIR CONDITIONING
	9 ☐ NOT USED
METHOD OF DRILLING	
1 ☒ CABLE TOOL	6 ☐ BORING
2 ☐ ROTARY (CONVENTIONAL)	7 ☐ DIAMOND
3 ☐ ROTARY (REVERSE)	8 ☐ JETTING
4 ☐ ROTARY (AIR)	9 ☐ DRIVING
5 ☐ AIR PERCUSSION	

LOCATION OF WELL	
IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.	
DRILLERS REMARKS:	

CONTRACTOR	
NAME OF WELL CONTRACTOR	LICENCE NUMBER
Capital Water Supply Ltd.	1558
ADDRESS	
Box 490 Stittsville, Ont.	
NAME OF DRILLER OR BORER	LICENCE NUMBER
J. Moore	
SIGNATURE OF CONTRACTOR	SUBMISSION DATE
Walter Kavanagh	DAY 11 MO. 12 YR. 73

OFFICE USE ONLY	
DATA SOURCE	CONTRACTOR
1	1558
DATE OF INSPECTION	INSPECTOR
16/5/79	K.J.P.P.
REMARKS:	
APL	
P	
WI	



WATER WELL RECORD

319/56

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

1514766

15504

RF

02

COUNTY OR DISTRICT <i>Carleton Place</i>	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE <i>Stratford OT CITY</i>	CON. BLOCK, TRACT, SURVEY, ETC. <i>2</i>	LOT <i>24-25</i>
DATE COMPLETED DAY <i>11</i> MO <i>06</i> YR <i>75</i>			48-53 <i>004</i>
ELEVATION <i>20880 4</i> <i>0325 4</i> <i>26</i>			

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<i>Brown</i>	<i>sand</i>		<i>loose</i>	<i>0</i>	<i>5</i>
<i>grey</i>	<i>hardpan</i>	<i>boulders</i>	<i>packed</i>	<i>5</i>	<i>21</i>
<i>black</i>	<i>limestone</i>		<i>hard</i>	<i>21</i>	<i>45</i>
<i>grey</i>	<i>sandstone</i>		<i>hard</i>	<i>45</i>	<i>73</i>

31	<i>000562877</i>	<i>00212141379</i>	<i>004581573</i>	<i>007321873</i>
32				

41 WATER RECORD	
WATER FOUND AT - FEET	KIND OF WATER
10-13	1 ☒ FRESH 3 ☐ SULPHUR
2 ☐ SALTY 4 ☐ MINERAL	
15-18	1 ☒ FRESH 3 ☐ SULPHUR
2 ☐ SALTY 4 ☐ MINERAL	
20-23	1 ☐ FRESH 3 ☐ SULPHUR
2 ☐ SALTY 4 ☐ MINERAL	
25-28	1 ☐ FRESH 3 ☐ SULPHUR
2 ☐ SALTY 4 ☐ MINERAL	
30-33	1 ☐ FRESH 3 ☐ SULPHUR
2 ☐ SALTY 4 ☐ MINERAL	

51 CASING & OPEN HOLE RECORD			
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
			FROM TO
<i>6 1/2</i>	1 ☒ STEEL	<i>188</i>	<i>0</i> <i>25</i>
<i>06</i>	2 ☐ GALVANIZED		<i>0025</i>
	3 ☐ CONCRETE		<i>25</i> <i>73</i>
	4 ☒ OPEN HOLE		
<i>06</i>	1 ☐ STEEL		<i>20-23</i>
	2 ☐ GALVANIZED		<i>0073</i>
	3 ☐ CONCRETE		
	4 ☒ OPEN HOLE		
<i>24-25</i>	1 ☐ STEEL		<i>27-30</i>
	2 ☐ GALVANIZED		
	3 ☐ CONCRETE		
	4 ☐ OPEN HOLE		

SCREEN	SIZE(S) OF OPENING (SLOT NO.)	DIAMETER 31-33	LENGTH 39-40
		INCHES	FEET
	MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN 41-44	FEET

61 PLUGGING & SEALING RECORD	
DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM TO	
10-13	14-17
18-21	22-25
26-29	30-33 80

71 PUMPING TEST	PUMPING TEST METHOD	10 PUMPING RATE	11-14 DURATION OF PUMPING
	1 ☒ PUMP 2 ☐ BAILER	<i>0007</i>	15-16 HOURS <i>00</i> 17-18 MINS
	STATIC LEVEL	WATER LEVEL END OF PUMPING	25 WATER LEVELS DURING
	19-21	22-24	15 MINUTES 26-28 30 MINUTES 29-31 45 MINUTES 32-34 60 MINUTES 35-37
	<i>010</i>	<i>040</i>	<i>040</i> <i>040</i> <i>040</i> <i>040</i> <i>040</i>
	IF FLOWING GIVE RATE	38-41 PUMP INTAKE SET AT	42 WATER AT END OF TEST
	GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY
	RECOMMENDED PUMP TYPE	43-45 RECOMMENDED PUMP SETTING	46-49 RECOMMENDED PUMPING RATE
	☐ SHALLOW ☒ DEEP	<i>050</i>	<i>0005</i>
	50-53	GPM / FT. SPECIFIC CAPACITY	

LOCATION OF WELL	
IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW.	
<i>Boulevard Rd.</i>	
<i>Fickle's Subdivision</i>	
<i>Plan 858</i>	
<i>Lot 28</i>	
<i>35'</i>	
DRILLERS REMARKS:	

FINAL STATUS OF WELL	1 ☒ WATER SUPPLY 5 ☐ ABANDONED, INSUFFICIENT SUPPLY
	2 ☐ OBSERVATION WELL 6 ☐ ABANDONED, POOR QUALITY
	3 ☐ TEST HOLE 7 ☐ UNFINISHED
	4 ☐ RECHARGE WELL
WATER USE	1 ☒ DOMESTIC 5 ☐ COMMERCIAL
	2 ☐ STOCK 6 ☐ MUNICIPAL
	3 ☐ IRRIGATION 7 ☐ PUBLIC SUPPLY
	4 ☐ INDUSTRIAL 8 ☐ COOLING OR AIR CONDITIONING
	☐ OTHER 9 ☐ NOT USED
METHOD OF DRILLING	1 ☐ CABLE TOOL 6 ☐ BORING
	2 ☐ ROTARY (CONVENTIONAL) 7 ☐ DIAMOND
	3 ☐ ROTARY (REVERSE) 8 ☐ JETTING
	4 ☐ ROTARY (AIR) 9 ☐ DRIVING
	5 ☒ AIR PERCUSSION

CONTRACTOR	NAME OF WELL CONTRACTOR	LICENCE NUMBER
	<i>Capital Water Supply Ltd</i>	<i>1558</i>
	ADDRESS	
	<i>Box 490, Stittsville Ont</i>	
	NAME OF DRILLER OR BORE	LICENCE NUMBER
	<i>M. Hamilton</i>	
	SIGNATURE OF CONTRACTOR	SUBMISSION DATE
	<i>W. Lavanash</i>	DAY <i>12</i> MO <i>6</i> YR <i>75</i>

OFFICE USE ONLY	DATA SOURCE	58 CONTRACTOR	59-62 DATE RECEIVED	63-68
	<i>1</i>	<i>1538</i>	<i>1707 75</i>	
	DATE OF INSPECTION	INSPECTOR		
	REMARKS:			
				<i>PFS</i>
				<i>WI</i>

Mandy Witteman

From: Public Information Services <publicinformationsservices@tssa.org>
Sent: May 27, 2021 1:09 PM
To: Mandy Witteman
Subject: RE: Search Records Request (PE5280)

Follow Up Flag: Follow up
Flag Status: Flagged

Please refrain from sending documents to head office and only submit your requests electronically via email along with credit card payment. We are all working remotely and mailing in applications with cheques will lengthen the overall processing time.

NO RECORD FOUND

Hello,

Thank you for your request for confirmation of public information.

- We confirm that there are no records in our database of any fuel storage tanks at the subject addresses.

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392 and email the completed form to publicinformationsservices@tssa.org along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard).

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind regards,

Sherees



Public Information Agent

Facilities and Business Services

345 Carlingview Drive

Toronto, Ontario M9W 6N9

Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationsservices@tssa.org

www.tssa.org



From: Mandy Witteman <MWitteman@Patersongroup.ca>
Sent: May 27, 2021 11:44 AM
To: Public Information Services <publicinformationsservices@tssa.org>
Subject: Search Records Request (PE5280)

[CAUTION]: This email originated outside the organisation.

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Good Morning,

Could you please complete a search of your records for **underground/aboveground storage tanks, historical spills or other incidents/infractions** for the following addresses in **Ottawa, ON**:

Bowesville Rd N: 3750, 3812, 3811

Riversside Drive: 3755, 3735, 3705

Thank you

Cheers,

Mandy Witteman, B.Eng., M.A.Sc.

patersongroup

**solution oriented engineering
over 60 years servicing our clients**

154 Colonnade Road South

Ottawa, Ontario, K2E 7J5

Tel: (613) 226-7381 Ext. 339

Cell: (403) 921-1157

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File Number: D06-03-21-0092

June 9, 2021

Mandy Witteman
Paterson Group
154 Colonnade Road South
Ottawa, ON K2E 7J5

Sent via email [mwitteman@patersongroup.ca]

Dear Ms. Wittman,

**Re: Information Request
3750 North Bowesville Road, Ottawa, Ontario ("Subject Property")**

Internal Department Circulation:

The Planning, Infrastructure and Economic Development Department has the following information in response to your request for information regarding the Subject Property:

- No information was returned on the Subject Property from Departmental circulation.

Documents Provided:

Excel

The Excel Spread Sheet identifies HLUI area, point and line features within 250 metres of the Subject Property, as shown on the provided Map. Within 500 metres of the Subject Property, landfills and Environmental Risk Management Area (ERMA) are also identified if applicable.

Additional information may be obtained by contacting:

Ontario's Environmental Registry

The Environmental Registry found at <http://www.ebr.gov.on.ca/ERS-WEB-External/> contains "public notices" about environmental matters being proposed by all government ministries covered by the Environmental Bill of Rights. The public notices may contain information about proposed new laws, regulations, policies and programs or about proposals to change or eliminate existing ones. By using keys words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

The Ontario Land Registry Office

Registration of real property is recorded in the Ontario Land Registry Office through the Land Titles Act or the Registry Act. Documents relating to title and other agreements that may affect your property are available to the public for a fee. It is recommended that a property search at the Land Registry Office be included in any investigation as to the historic use of your property. The City of Ottawa cannot comment on any documents to which it is not a party.

Court House
161 Elgin Street 4th Floor
Ottawa ON K2P 2K1
Tel: (613) 239-1230
Fax: (613) 239-1422

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database is provided on an “as is” basis with no representation or warranty by the City with respect to the information’s accuracy or exhaustiveness in responding to the request.

Furthermore, the HLUI database and the results of this search in no way confirm the presence or absence of contamination or pollution of any kind. This information is provided on the assumption that it will not be relied upon by any person for any purpose whatsoever. The City of Ottawa denies all liability to any persons attempting to rely on any information provided from the HLUI database.

Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Property. You may wish to contact the Ontario Ministry of Environment and Climate Change for additional information.

If you have any further questions or comments, please contact Jeffrey Ren at 613-580-2424 ext. 23569 or HLUI@ottawa.ca

Sincerely,

A handwritten signature in black ink, appearing to read "Jeffrey Ren", with a stylized flourish at the end.

Jeffrey Ren

Per:

Michael Boughton, MCIP, RPP
Senior Planner
Development Review East
Planning Services
Planning, Infrastructure and Economic Development Department

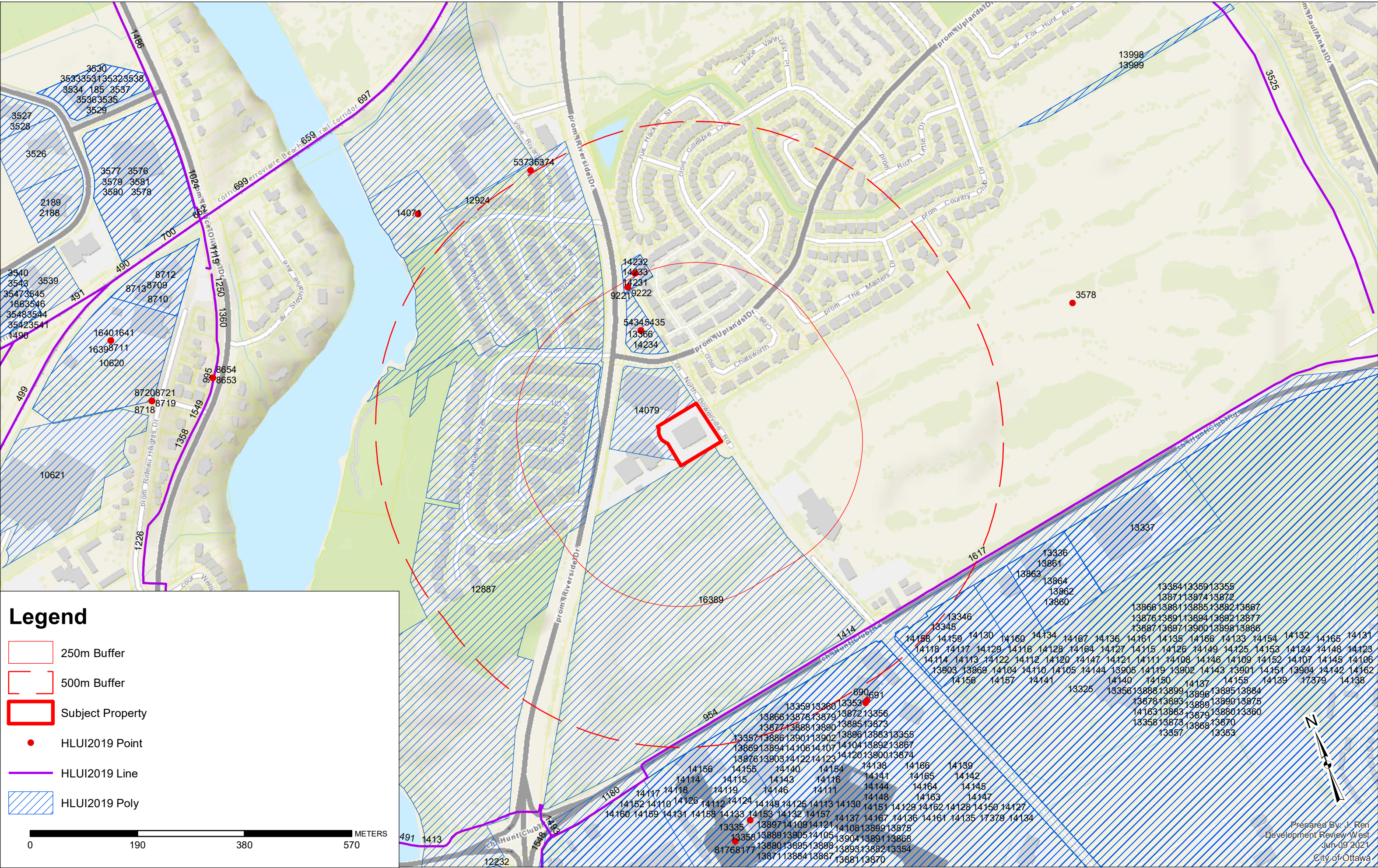
MB / JR

Enclosures: (2)

1. HLUI Map
2. HLUI Excel Spreadsheet

cc: File no. D06-03-21-0092

HISTORIC LAND USE INVENTORY (HLUI) - REPORT REFERENCE MAP



OBJECTID	ACTIVITY_NAME	FACILITY_TYPE	SOURCE_UPDATE_SORTED	QAQC	YEAR	YEAR_1	ST_NUM	ST_NAME	ST_SUFFIX	MUNICIPALITY	ST_NUM2017	ST_NAME2017	ST_SUFFIX2017	POSTAL_CODE2017	PIN2017	MUNICIPALITY2017	NAICS	SIC	COMMENTS	STORAGE_TANK	Shape_Length	Shape_Area
12887	UNNAMED SAND/GRAVEL	Sand and Gravel Pits	1922-DMD-TM-Ottawa-Sheet#14	1	1912-1967	c. 1912-19	0	UPLANDS	DR	OTTAWA	4070	RIVERSIDE	DR		45891796	OLD OTTAWA	212323	82	UTM = 445600E, 502020N		7000.873667	715209.3956
12924	DEPARTMENT OF NATI	Telecommunication Broad	1922-DMD-TMOttawa-Sheet#14	1	1922-2000	c. 1922-20	0			WEST CA	3854	CROWSNEST	AVE	K1V1K5	40530048	OLD OTTAWA	221320; 221330	481; 499;	UTM = 418200E, 503325N		2230.302623	165811.7608
13366	WS BIRTC SERVICE S	Gasoline Service Stations	1960-1970-M	1	1960-1970		3705	RIVERSIDE	DR	OTTAWA	3705	RIVERSIDE	DR		40750064	OTTAWA					312.1921338	4508.92414
14079	MCCOLL-FRONTENAC	Gasoline Service Stations	TownshipofGoucester-File#4-13-	1	1947	c. 1947	0	BOWESVILLE	RD	OTTAWA	3735	RIVERSIDE	DR		40560294	OLD OTTAWA	447110; 447190	633; 635			588.7555393	16346.84577
14231	CROWN CLEANING	Dry Cleaners	1990-CD	1	1990	CD 1990	3639	RIVERSIDE	DR		3673	RIVERSIDE	DR	K1V1G8	40750062	OLD OTTAWA			potentially 3673 Riverside Dr		193.7954218	2217.38766
14232	SPIC & SPAN CLEANERS	Laundries and Cleaners	1994-PID; 1998-SC; 2000-PID	1	1994-2000	c. 1994; c.	3681	RIVERSIDE	DR	OTTAWA	3673	RIVERSIDE	DR	K1V1G8	40750062	OLD OTTAWA	561740; 812310	972			193.7954218	2217.38766
14233	RIVERSIDE CLEANERS	Laundries and Cleaners	1998-SC; 2001-ES; 2006-ES; 20	1	1998-2017	2001-2017				OTTAWA	3673	RIVERSIDE	DR	K1V1G8	40750062	OLD OTTAWA	81232002	1940170			193.7954218	2217.38766
14234	ESSO IMPERIAL OIL LIM	Gasoline Service Stations	1960-M; 1970-M; 1980-M; 1998-	1	1960-2017	1960-2017	3705	RIVERSIDE	DR	OTTAWA	3705	RIVERSIDE	DR	K1V1G8	40750064	OLD OTTAWA	447110; 447190	633			312.1921338	4508.92414
16389	BOWESVILLE GENERAL	Other Storage and Wareh	1988-GloucesterHistSoc-3oc.Put	1	1897-1951	c. 1897-19	0	BOWESVILLE	RD	OTTAWA	3812	NORTH BOWESVILLE	RD		40560304	OLD OTTAWA	412110; 418390	479; 511;	Storehouse listed material	2 AGT - 500 gal. (kerosene)	1854.226863	188079.6477

OBJECTI D	ACTIVITY_NAME	FACILITY_TYPE	TANK_LO CATION	TANK_CONT ENT	TANK_SIZE	TANK_TYPE	TANK_STAT US	SOURCE	INSTALLED_ ST_NUM	INSTALLED_ST_ NAME	INSTALLE D_ST_ABR	INSTALL ED_ST_ DIR	COMMENT	MTM_X	MTM_Y	TANK_ID	DATE_INSTAL LED	NATURE_OF_B USINESS	SCANNED _DRAWIN G	TEMPREC ordID	CAPACITY _UOM	POSTCOD E
5431	IMPERIAL OIL		UST	fuel oil	4540	Permit		Bylaw No. 8022 -	3705	RIVERSIDE	DR		dwg shows dry well, septic tank &	368244.7107	5022837.014	ST0141	01/02/1960	1 - 1000 fuel	Yes			
5432	IMPERIAL OIL		UST	gasoline	22700	Permit		Bylaw No. 8022 -	3705	RIVERSIDE	DR		dwg shows dry well, septic tank &	368244.7107	5022837.014	ST1849	01/02/1960	1 - 1000 fuel	Yes			
5433	IMPERIAL OIL		UST	gasoline	18160	Permit		Bylaw No. 8022 -	3705	RIVERSIDE	DR		dwg shows dry well, septic tank &	368244.7107	5022837.014	ST2419	01/02/1960	1 - 1000 fuel	Yes			
5434	IMPERIAL OIL		UST	gasoline	13620	Permit		Bylaw No. 8022 -	3705	RIVERSIDE	DR		dwg shows dry well, septic tank &	368244.7107	5022837.014	ST2714	01/02/1960	1 - 1000 fuel	Yes			
5435	IMPERIAL OIL		UST	waste oil	4540	Permit		Bylaw No. 8022 -	3705	RIVERSIDE	DR		dwg shows dry well, septic tank &	368244.7107	5022837.014	ST2928	01/02/1960	1 - 1000 fuel	Yes			
9219	1414443 ONTARIO INC	Gasoline Station-SS		gasoline	31800	Licenced	Previous	GW Study 2004	3705	RIVERSIDE	DR	<Null>	3705 RIVERSIDE DR	368221.4666	5022913.825		19950601	Retail		1363	L	K1V 1G8
9220	1414443 ONTARIO INC	Gasoline Station-SS		gasoline	31800	Licenced	Previous	GW Study 2004	3705	RIVERSIDE	DR	<Null>	3705 RIVERSIDE DR	368221.4666	5022913.825		19950601	Retail		1364	L	K1V 1G8
9221	1414443 ONTARIO INC	Gasoline Station-SS		gasoline	31800	Licenced	Current	GW Study 2004	3705	RIVERSIDE	DR	<Null>	3705 RIVERSIDE DR	368221.4666	5022913.825		19950601	Retail		1365	L	K1V 1G8
9222	1414443 ONTARIO INC	Gasoline Station-SS		gasoline	31800	Licenced	Current	GW Study 2004	3705	RIVERSIDE	DR	<Null>	3705 RIVERSIDE DR	368221.4666	5022913.825		19950601	Retail		1366	L	K1V 1G8



DATABASE REPORT

Project Property:	<i>PE527x - 3750 North Bowesville Road PE527x - 3750 North Bowesville Road Ottawa ON K1V 1B8</i>
Project No:	<i>31694</i>
Report Type:	<i>Standard Report</i>
Order No:	<i>21042700046</i>
Requested by:	<i>Paterson Group Inc.</i>
Date Completed:	<i>April 30, 2021</i>

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

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Executive Summary

Property Information:

Project Property: PE527x - 3750 North Bowesville Road
PE527x - 3750 North Bowesville Road Ottawa ON K1V 1B8

Project No: 31694

Coordinates:

Latitude: 45.3409815
Longitude: -75.6894226
UTM Northing: 5,021,061.41
UTM Easting: 445,986.22
UTM Zone: 18T

Elevation: 325 FT
98.96 M

Order Information:

Order No: 21042700046
Date Requested: April 27, 2021
Requested by: Paterson Group Inc.
Report Type: Standard Report

Historical/Products:

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	2	2
CA	<i>Certificates of Approval</i>	Y	0	3	3
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Manufacturers and Distributors</i>	Y	0	0	0
CHM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DTNK	<i>Delisted Fuel Tanks</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	1	1
ECA	<i>Environmental Compliance Approval</i>	Y	0	2	2
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	2	2
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	3	3
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	8	8
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	6	6
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Y	0	1	1
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	2	2
SCT	Scott's Manufacturing Directory	Y	0	2	2
SPL	Ontario Spills	Y	0	1	1
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	5	5
		Total:	0	39	39

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
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No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>1</u>	WWIS		lot 4 con 2 ON Well ID: 1514766	WNW/68.8	-1.08	<u>20</u>
<u>2</u>	WWIS		ON Well ID: 1513706	ESE/102.8	0.61	<u>23</u>
<u>3</u>	SCT	COGNOS INCORPORATED	3755 RIVERSIDE DR OTTAWA ON K1V 1B7	WSW/128.1	-0.08	<u>27</u>
<u>3</u>	SCT	COGNOS INC.	3755 Riverside Dr Ottawa ON K1V 1B7	WSW/128.1	-0.08	<u>28</u>
<u>3</u>	CA		Pt Lot 4, Conc 2 (Rideau Front); 3755 Riverside Dr P.O. Box 9707, Stn. T Ottawa ON K1V 1B7	WSW/128.1	-0.08	<u>28</u>
<u>3</u>	EBR	Cognos Incorporated	Pt Lot 4, Conc 2 (Rideau Front); 3755 Riverside Dr Ottawa Ontario K1G 4K9 ON	WSW/128.1	-0.08	<u>28</u>
<u>3</u>	EHS		3755 Riverside Drive Ottawa ON	WSW/128.1	-0.08	<u>29</u>
<u>3</u>	CA	IBM Canada Limited	3755 Riverside Dr Ottawa ON	WSW/128.1	-0.08	<u>29</u>
<u>3</u>	GEN	IBM Canada Ltd	3755 Riverside Drive Ottawa ON	WSW/128.1	-0.08	<u>29</u>
<u>3</u>	ECA	IBM Canada Limited	3755 Riverside Dr Ottawa ON K1G 4K9	WSW/128.1	-0.08	<u>29</u>
<u>3</u>	ECA	Cognos Incorporated	Pt Lot 4, Conc 2 (Rideau Front); 3755 Riverside Dr Ottawa ON K1G 4K9	WSW/128.1	-0.08	<u>30</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>3</u>	GEN	IBM Canada Ltd	3755 Riverside Drive Ottawa ON K1G 4K9	WSW/128.1	-0.08	<u>30</u>
<u>3</u>	GEN	IBM Canada Ltd	3755 Riverside Drive Ottawa ON K1G 4K9	WSW/128.1	-0.08	<u>30</u>
<u>3</u>	SPL	IBM Canada Limited	3755 Riverside Dr Ottawa ON K1G 4K9	WSW/128.1	-0.08	<u>31</u>
<u>3</u>	GEN	IBM Canada Ltd	3755 Riverside Drive Ottawa ON K1G 4K9	WSW/128.1	-0.08	<u>31</u>
<u>4</u>	WWIS		ON Well ID: 1508810	NW/138.7	-2.00	<u>32</u>
<u>5</u>	BORE		ON	NW/138.8	-2.00	<u>34</u>
<u>6</u>	BORE		ON	WSW/184.5	0.22	<u>35</u>
<u>7</u>	WWIS		ON Well ID: 1508796	WSW/184.6	0.22	<u>36</u>
<u>8</u>	PRT	RIVERSIDE ESSO J BROOKS AGENT	3705 RIVERSIDE DR OTTAWA ON K1V1G8	NNW/184.9	-3.20	<u>39</u>
<u>8</u>	RST	ESSO SHOP	3705 RIVERSIDE DR OTTAWA ON K1V1G8	NNW/184.9	-3.20	<u>39</u>
<u>8</u>	RST	RIVERSIDE ESSO	3705 RIVERSIDE DR OTTAWA ON K1V 1G8	NNW/184.9	-3.20	<u>39</u>
<u>8</u>	EHS		3705 Riverside Drive Ottawa ON K1V 1G8	NNW/184.9	-3.20	<u>39</u>
<u>8</u>	FST	MAC'S CONVENIENCE STORES INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW/184.9	-3.20	<u>39</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>8</u>	FST	MAC'S CONVENIENCE STORES INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW/184.9	-3.20	<u>40</u>
<u>8</u>	FST	MAC'S CONVENIENCE STORES INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW/184.9	-3.20	<u>41</u>
<u>8</u>	FST	MAC'S CONVENIENCE STORES INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW/184.9	-3.20	<u>41</u>
<u>8</u>	GEN	Imperial Oil	3705 Riverside Drive Ottawa ON	NNW/184.9	-3.20	<u>42</u>
<u>8</u>	GEN	Imperial Oil	3705 Riverside Drive Ottawa ON	NNW/184.9	-3.20	<u>42</u>
<u>8</u>	EXP	1343615 ONTARIO INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW/184.9	-3.20	<u>42</u>
<u>8</u>	EXP	1343615 ONTARIO INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW/184.9	-3.20	<u>43</u>
<u>8</u>	EXP	1343615 ONTARIO INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW/184.9	-3.20	<u>43</u>
<u>8</u>	FST	1343615 ONTARIO INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW/184.9	-3.20	<u>43</u>
<u>8</u>	FST	1343615 ONTARIO INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW/184.9	-3.20	<u>44</u>
<u>8</u>	FST		3705 RIVERSIDE DR OTTAWA ON K1V 1G8	NNW/184.9	-3.20	<u>44</u>
<u>8</u>	FST	1343615 ONTARIO INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW/184.9	-3.20	<u>45</u>

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
<u>9</u>	CA	NEWILL CORPORATION-LOTS 5&6, CONC. 2	RIVERSIDE DR./KIMBERWICK CR. OTTAWA CITY ON	NW/191.6	-3.00	<u>45</u>
<u>10</u>	WWIS		ON Well ID: 7193375	NNW/221.1	-3.00	<u>45</u>
<u>11</u>	PINC		36 Chatsworth Ave,Ottawa ON	ENE/225.6	-1.08	<u>46</u>

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 2 BORE site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	WSW	184.52	<u>6</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	NW	138.77	<u>5</u>

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 3 CA site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
IBM Canada Limited	3755 Riverside Dr Ottawa ON	WSW	128.08	<u>3</u>
	Pt Lot 4, Conc 2 (Rideau Front); 3755 Riverside Dr P.O. Box 9707, Stn. T Ottawa ON K1V 1B7	WSW	128.08	<u>3</u>
NEWILL CORPORATION-LOTS 5&6, CONC. 2	RIVERSIDE DR./KIMBERWICK CR. OTTAWA CITY ON	NW	191.55	<u>9</u>

EBR - Environmental Registry

A search of the EBR database, dated 1994-Mar 31, 2021 has found that there are 1 EBR site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Cognos Incorporated	Pt Lot 4, Conc 2 (Rideau Front); 3755 Riverside Dr Ottawa Ontario K1G 4K9 Ottawa	WSW	128.08	<u>3</u>

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Mar 31, 2021 has found that there are 2 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
IBM Canada Limited	3755 Riverside Dr Ottawa ON K1G 4K9	WSW	128.08	<u>3</u>
Cognos Incorporated	Pt Lot 4, Conc 2 (Rideau Front); 3755 Riverside Dr Ottawa ON K1G 4K9	WSW	128.08	<u>3</u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jan 31, 2021 has found that there are 2 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	3755 Riverside Drive Ottawa ON	WSW	128.08	<u>3</u>
	3705 Riverside Drive Ottawa ON K1V 1G8	NNW	184.88	<u>8</u>

EXP - List of Expired Fuels Safety Facilities

A search of the EXP database, dated Jul 31, 2020 has found that there are 3 EXP site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
1343615 ONTARIO INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW	184.88	<u>8</u>
1343615 ONTARIO INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW	184.88	<u>8</u>
1343615 ONTARIO INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA	NNW	184.88	<u>8</u>

FST - Fuel Storage Tank

A search of the FST database, dated Jul 31, 2020 has found that there are 8 FST site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
1343615 ONTARIO INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW	184.88	<u>8</u>
	3705 RIVERSIDE DR OTTAWA ON K1V 1G8	NNW	184.88	<u>8</u>
1343615 ONTARIO INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW	184.88	<u>8</u>
MAC'S CONVENIENCE STORES INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW	184.88	<u>8</u>
MAC'S CONVENIENCE STORES INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW	184.88	<u>8</u>
MAC'S CONVENIENCE STORES INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW	184.88	<u>8</u>
MAC'S CONVENIENCE STORES INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW	184.88	<u>8</u>
1343615 ONTARIO INC	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	NNW	184.88	<u>8</u>

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jan 31, 2021 has found that there are 6 GEN site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
IBM Canada Ltd	3755 Riverside Drive Ottawa ON K1G 4K9	WSW	128.08	<u>3</u>
IBM Canada Ltd	3755 Riverside Drive Ottawa ON K1G 4K9	WSW	128.08	<u>3</u>
IBM Canada Ltd	3755 Riverside Drive Ottawa ON	WSW	128.08	<u>3</u>
IBM Canada Ltd	3755 Riverside Drive Ottawa ON K1G 4K9	WSW	128.08	<u>3</u>
Imperial Oil	3705 Riverside Drive Ottawa ON	NNW	184.88	<u>8</u>
Imperial Oil	3705 Riverside Drive Ottawa ON	NNW	184.88	<u>8</u>

PINC - Pipeline Incidents

A search of the PINC database, dated Oct 31, 2020 has found that there are 1 PINC site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	36 Chatsworth Ave.,Ottawa ON	ENE	225.65	<u>11</u>

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 1 PRT site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
RIVERSIDE ESSO J BROOKS AGENT	3705 RIVERSIDE DR OTTAWA ON K1V1G8	NNW	184.88	<u>8</u>

RST - Retail Fuel Storage Tanks

A search of the RST database, dated 1999-Dec 31, 2020 has found that there are 2 RST site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
RIVERSIDE ESSO	3705 RIVERSIDE DR OTTAWA ON K1V 1G8	NNW	184.88	<u>8</u>
ESSO SHOP	3705 RIVERSIDE DR OTTAWA ON K1V1G8	NNW	184.88	<u>8</u>

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 2 SCT site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
COGNOS INCORPORATED	3755 RIVERSIDE DR OTTAWA ON K1V 1B7	WSW	128.08	<u>3</u>
COGNOS INC.	3755 Riverside Dr Ottawa ON K1V 1B7	WSW	128.08	<u>3</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988-Mar 2020; Jul 2020 - Aug 2020 has found that there are 1 SPL site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
IBM Canada Limited	3755 Riverside Dr Ottawa ON K1G 4K9	WSW	128.08	<u>3</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2020 has found that there are 5 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	ESE	102.76	<u>2</u>
	<i>Well ID:</i> 1513706			
	ON	WSW	184.58	<u>7</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	Well ID: 1508796			
<u>Lower Elevation</u>	lot 4 con 2 ON	WNW	68.77	<u>1</u>
	Well ID: 1514766			
	ON	NW	138.72	<u>4</u>
	Well ID: 1508810			
	ON	NNW	221.09	<u>10</u>
	Well ID: 7193375			

75°41'30"W

45°20'30"N

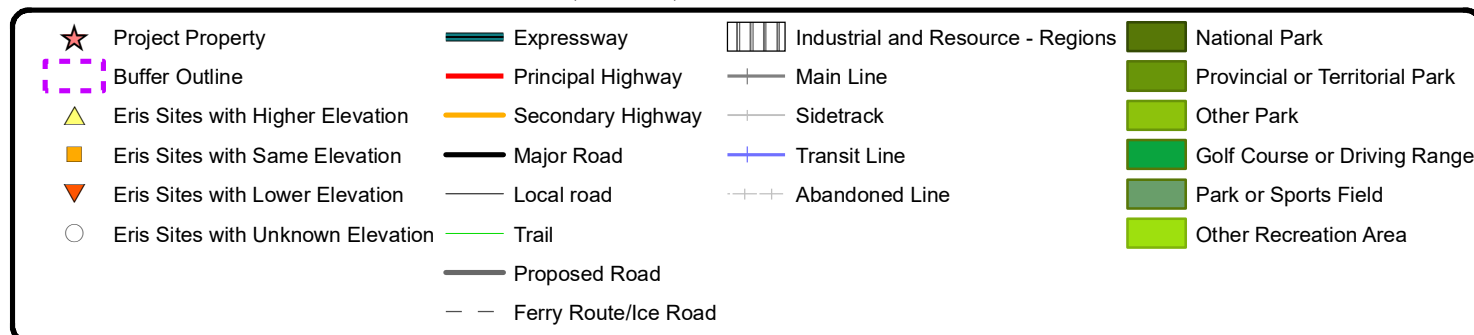
45°20'30"N



Map: 0.25 Kilometer Radius

Order Number: 21042700046

Address: PE527x - 3750 North Bowesville Road, Ottawa, ON



75°42'W

45°21'N

45°21'N



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Aerial Year: 2008

Order Number: 21042700046

Address: PE527x - 3750 North Bowesville Road, Ottawa, ON



Source: ESRI World Imagery

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75°42'W

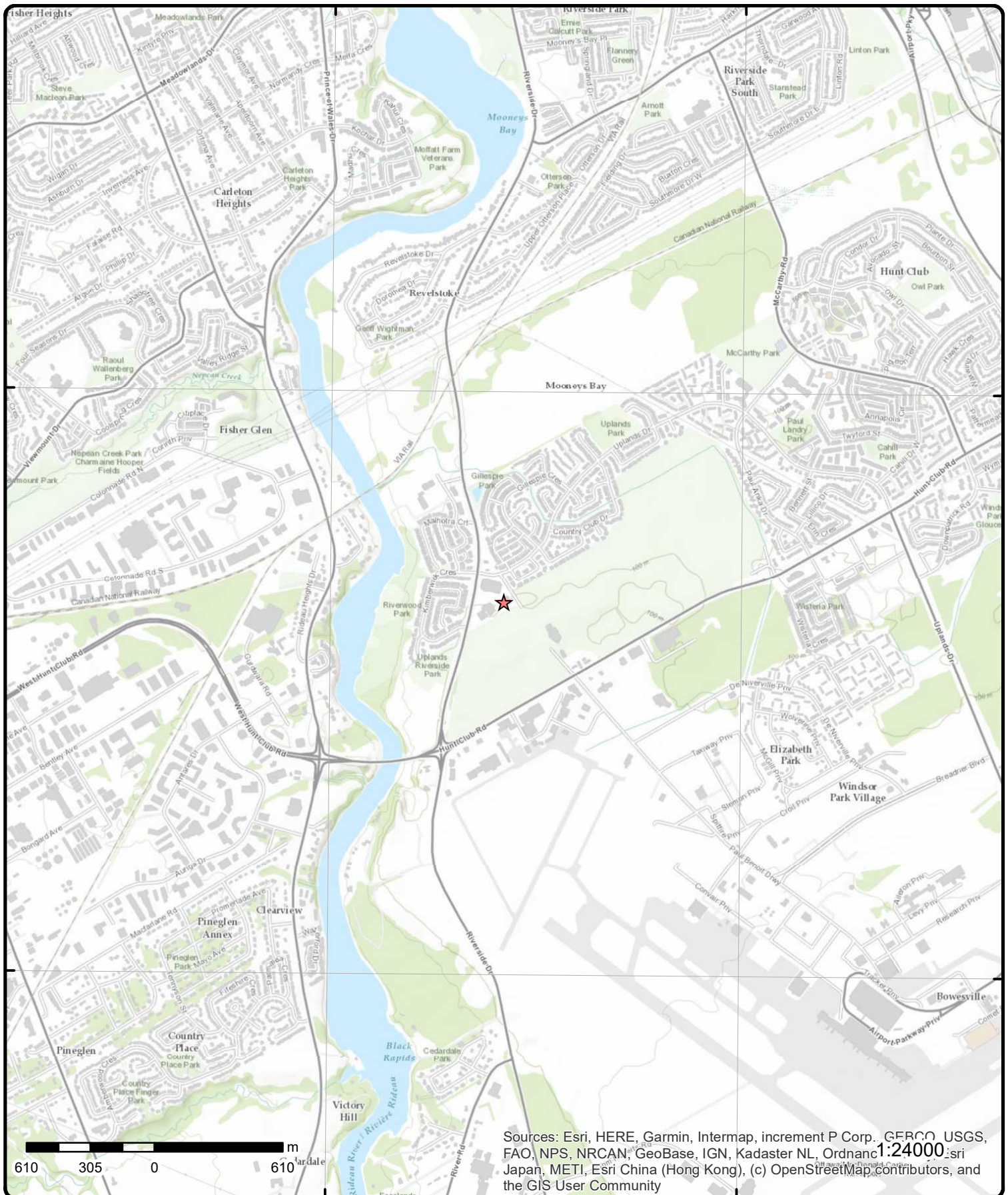
75°40'30"W

45°21'N

45°21'N

45°19'30"N

45°19'30"N



Topographic Map

Address: PE527x - 3750 North Bowesville Road, ON

Source: ESRI World Topographic Map

Order Number: 21042700046



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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
---------	-------------------	-------------------------	---------------	------	----

1

1 of 1

WNW/68.8

97.9 / -1.08

lot 4 con 2
ON

WWIS

Well ID: 1514766

Construction Date:

Primary Water Use: Domestic

Sec. Water Use: 0

Final Well Status: Water Supply

Water Type:

Casing Material:

Audit No:

Tag:

Construction Method:

Elevation (m):

Elevation Reliability:

Depth to Bedrock:

Well Depth:

Overburden/Bedrock:

Pump Rate:

Static Water Level:

Flowing (Y/N):

Flow Rate:

Clear/Cloudy:

Data Entry Status:

Data Src: 1

Date Received: 7/17/1975

Selected Flag: Yes

Abandonment Rec:

Contractor: 1558

Form Version: 1

Owner:

Street Name:

County: OTTAWA

Municipality: OTTAWA CITY (GLOUCESTER)

Site Info:

Lot: 004

Concession: 02

Concession Name: RF

Easting NAD83:

Northing NAD83:

Zone:

UTM Reliability:

PDF URL (Map):

https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1514766.pdf

Bore Hole Information

Bore Hole ID: 10036736

DP2BR: 21

Spatial Status:

Code OB: r

Code OB Desc: Bedrock

Open Hole:

Cluster Kind:

Date Completed: 6/11/1975

Remarks:

Elevrc Desc:

Location Source Date:

Improvement Location Source:

Improvement Location Method:

Source Revision Comment:

Supplier Comment:

Elevation: 98.568824

Elevrc:

Zone: 18

East83: 445930.7

North83: 5021102

Org CS:

UTMRC: 4

UTMRC Desc: margin of error : 30 m - 100 m

Location Method: p4

Overburden and Bedrock

Materials Interval

Formation ID: 931027256

Layer: 2

Color: 2

General Color: GREY

Mat1: 14

Most Common Material: HARDPAN

Mat2: 13

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2 Desc:		BOULDERS			
Mat3:		79			
Mat3 Desc:		PACKED			
Formation Top Depth:		5			
Formation End Depth:		21			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931027255			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		77			
Mat2 Desc:		LOOSE			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		5			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931027257			
Layer:		3			
Color:		8			
General Color:		BLACK			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		73			
Mat2 Desc:		HARD			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		21			
Formation End Depth:		45			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931027258			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:		73			
Mat2 Desc:		HARD			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		45			
Formation End Depth:		73			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961514766			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10585306			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930064939			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		73			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930064938			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		25			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991514766			
Pump Set At:					
Static Level:		10			
Final Level After Pumping:		40			
Recommended Pump Depth:		50			
Pumping Rate:		7			
Flowing Rate:					
Recommended Pump Rate:		5			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934902056			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		40			
Test Level UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934383598			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		40			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934644586			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		40			
Test Level UOM:		ft			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934100582			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		40			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933470715			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		72			
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		933470714			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		65			
Water Found Depth UOM:		ft			
<u>2</u>	1 of 1	ESE/102.8	99.6 / 0.61	ON	WWIS
Well ID:	1513706			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Commerical			Date Received:	1/14/1974
Sec. Water Use:	0			Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1558
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	OTTAWA CITY
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				Northing NAD83: Zone: UTM Reliability:	
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1513706.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:	10035688			Elevation:	100.982765
DP2BR:	103			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	446080.7
Code OB Desc:	Bedrock			North83:	5021021
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	4
Date Completed:	12/8/1973			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	p4
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931024257				
Layer:	6				
Color:	2				
General Color:	GREY				
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:	78				
Mat2 Desc:	MEDIUM-GRAINED				
Mat3:	73				
Mat3 Desc:	HARD				
Formation Top Depth:	160				
Formation End Depth:	210				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931024252				
Layer:	1				
Color:	6				
General Color:	BROWN				
Mat1:	28				
Most Common Material:	SAND				
Mat2:	79				
Mat2 Desc:	PACKED				
Mat3:					
Mat3 Desc:					
Formation Top Depth:	0				
Formation End Depth:	30				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		931024253			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		30			
Formation End Depth:		65			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID:		931024254			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		13			
Mat2 Desc:		BOULDERS			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		65			
Formation End Depth:		80			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID:		931024256			
Layer:		5			
Color:		2			
General Color:		GREY			
Mat1:		18			
Most Common Material:		SANDSTONE			
Mat2:		78			
Mat2 Desc:		MEDIUM-GRAINED			
Mat3:		73			
Mat3 Desc:		HARD			
Formation Top Depth:		103			
Formation End Depth:		160			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock</u> <u>Materials Interval</u>					
Formation ID:		931024255			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		14			
Most Common Material:		HARDPAN			
Mat2:		13			
Mat2 Desc:		BOULDERS			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		80			
Formation End Depth:		103			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961513706			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10584258			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930063117			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		110			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930063118			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		210			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991513706			
Pump Set At:					
Static Level:		27			
Final Level After Pumping:		115			
Recommended Pump Depth:		200			
Pumping Rate:		5			
Flowing Rate:					
Recommended Pump Rate:		5			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		2			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID:		934898201			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		115			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934640727			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		115			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934099494			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		75			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934379734			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		90			
Test Level UOM:		ft			
 <u>Water Details</u>					
Water ID:		933469379			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		205			
Water Found Depth UOM:		ft			
 <u>Water Details</u>					
Water ID:		933469378			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		180			
Water Found Depth UOM:		ft			
<u>3</u>	1 of 13	WSW/128.1	98.9 / -0.08	COGNOS INCORPORATED 3755 RIVERSIDE DR OTTAWA ON K1V 1B7	SCT
Established:		1969			
Plant Size (ft²):		0			
Employment:		500			
 <u>--Details--</u>					
Description:		MAGNETIC AND OPTICAL RECORDING MEDIA			
SIC/NAICS Code:		3695			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	2 of 13	WSW/128.1	98.9 / -0.08	COGNOS INC. 3755 Riverside Dr Ottawa ON K1V 1B7	SCT
Established:		1969			
Plant Size (ft²):		0			
Employment:		500			
--Details--					
Description:		Software Publishers			
SIC/NAICS Code:		511210			
Description:		Manufacturing and Reproducing Magnetic and Optical Media			
SIC/NAICS Code:		334610			
3	3 of 13	WSW/128.1	98.9 / -0.08	Pt Lot 4, Conc 2 (Rideau Front); 3755 Riverside Dr P.O. Box 9707, Stn. T Ottawa ON K1V 1B7	CA
Certificate #:		3975-57CM5H			
Application Year:		02			
Issue Date:		2/27/02			
Approval Type:		Industrial air			
Status:		Approved			
Application Type:		New Certificate of Approval			
Client Name:		Cognos Incorporated			
Client Address:		3755 Riverside Drive, P.O. Box 9707, Stn. T			
Client City:		Ottawa			
Client Postal Code:		K1G 4K9			
Project Description:		Cognos Riverside II is a new 10 storey office tower located at the existing Cognos Campus near Uplands Drive on Riverside Drive. Also on the site are a new 4 level parking structure and an existing 6 storey office tower. This application covers the emission of NOx from the following equipment: New 10 storey office tower: - One (1) 1000 kw emergency diesel generator - Three (3) 3000 MBTU gas fired boilers - Two (2) 250 MBH gas fired domestic water heaters - One (1) 999 MBH gas fired make-up air unit New 4 level parking structure: -One (1) 1260 MBTU gas fired boiler - One (1) 1800 MBTU gas fired boiler The equipment is located and exhausted as shown on the enclosed site plan The NOx emissions from the listed equipment are below Ministry of Environment acceptable limits. The noise levels emitted from the listed equipment are below Ministry of Environment acceptable levels.			
Contaminants:					
Emission Control:					
3	4 of 13	WSW/128.1	98.9 / -0.08	Cognos Incorporated Pt Lot 4, Conc 2 (Rideau Front); 3755 Riverside Dr Ottawa Ontario K1G 4K9 Ottawa ON	EBR
EBR Registry No:		IA01E1076		Decision Posted:	
Ministry Ref No:		1307-4YWS26		Exception Posted:	
Notice Type:		Instrument Decision		Section:	
Notice Stage:				Act 1:	
Notice Date:		March 04, 2002		Act 2:	
Proposal Date:		July 24, 2001		Site Location Map:	
Year:		2001			
Instrument Type:		(EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)			
Off Instrument Name:					
Posted By:					
Company Name:		Cognos Incorporated			
Site Address:					
Location Other:					
Proponent Name:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Proponent Address: 3755 Riverside Drive, P.O. Box 9707, Stn. T, Ottawa Ontario, K1G 4K9 Comment Period: URL: Site Location Details: Pt Lot 4, Conc 2 (Rideau Front); 3755 Riverside Dr Ottawa Ontario K1G 4K9 Ottawa					
<u>3</u>	5 of 13	WSW/128.1	98.9 / -0.08	3755 Riverside Drive Ottawa ON	EHS
Order No: 20071212001 Status: C Report Type: CAN - Complete Report Report Date: 12/20/2007 Date Received: 12/12/2007 Previous Site Name: Lot/Building Size: Additional Info Ordered: Fire Insur. Maps And /or Site Plans Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): 0.25 X: -75.690443 Y: 45.341275					
<u>3</u>	6 of 13	WSW/128.1	98.9 / -0.08	IBM Canada Limited 3755 Riverside Dr Ottawa ON	CA
Certificate #: 7055-7YHRCF Application Year: 2009 Issue Date: 12/8/2009 Approval Type: Air Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
<u>3</u>	7 of 13	WSW/128.1	98.9 / -0.08	IBM Canada Ltd 3755 Riverside Drive Ottawa ON	GEN
Generator No: ON8574389 Status: Approval Years: 2011 Contam. Facility: MHSW Facility: SIC Code: 541510 SIC Description: PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:					
<u>3</u>	8 of 13	WSW/128.1	98.9 / -0.08	IBM Canada Limited 3755 Riverside Dr Ottawa ON K1G 4K9	ECA
Approval No: 7055-7YHRCF Approval Date: 2009-12-08 Status: Approved Record Type: ECA Link Source: IDS MOE District: Ottawa City: Longitude: -75.690346 Latitude: 45.340855 Geometry X:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
SWP Area Name: Rideau Valley Approval Type: ECA-AIR Project Type: AIR Business Name: IBM Canada Limited Address: 3755 Riverside Dr Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1735-7WVRB2-14.pdf					
3	9 of 13	WSW/128.1	98.9 / -0.08	Cognos Incorporated Pt Lot 4, Conc 2 (Rideau Front); 3755 Riverside Dr Ottawa ON K1G 4K9	ECA
Approval No: 3975-57CM5H Approval Date: 2002-02-27 Status: Revoked and/or Replaced Record Type: ECA Link Source: IDS SWP Area Name: Rideau Valley Approval Type: ECA-AIR Project Type: AIR Business Name: Cognos Incorporated Address: Pt Lot 4, Conc 2 (Rideau Front); 3755 Riverside Dr Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1307-4YWS26-14.pdf					
3	10 of 13	WSW/128.1	98.9 / -0.08	IBM Canada Ltd 3755 Riverside Drive Ottawa ON K1G 4K9	GEN
Generator No: ON8574389 Status: Registered Approval Years: As of Dec 2018 Contam. Facility: MHSW Facility: SIC Code: SIC Description:					
PO Box No: Country: Canada Choice of Contact: Co Admin: Phone No Admin:					
<u>Detail(s)</u>					
Waste Class: 145 L Waste Class Desc: Wastes from the use of pigments, coatings and paints					
Waste Class: 148 C Waste Class Desc: Misc. wastes and inorganic chemicals					
Waste Class: 251 L Waste Class Desc: Waste oils/sludges (petroleum based)					
Waste Class: 263 H Waste Class Desc: Misc. waste organic chemicals					
Waste Class: 331 I Waste Class Desc: Waste compressed gases including cylinders					
3	11 of 13	WSW/128.1	98.9 / -0.08	IBM Canada Ltd 3755 Riverside Drive Ottawa ON K1G 4K9	GEN
Generator No: ON8574389 Status: Registered					
PO Box No: Country: Canada					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approval Years:		As of Jul 2020		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:					
SIC Description:					
Detail(s)					
Waste Class:		331 I			
Waste Class Desc:		Waste compressed gases including cylinders			
Waste Class:		145 L			
Waste Class Desc:		Wastes from the use of pigments, coatings and paints			
Waste Class:		146 T			
Waste Class Desc:		Other specified inorganic sludges, slurries or solids			
Waste Class:		148 C			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		251 L			
Waste Class Desc:		Waste oils/sludges (petroleum based)			
Waste Class:		263 H			
Waste Class Desc:		Misc. waste organic chemicals			
3	12 of 13	WSW/128.1	98.9 / -0.08	IBM Canada Limited 3755 Riverside Dr Ottawa ON K1G 4K9	SPL
Ref No:		6070-BADR4A		Discharger Report:	
Site No:		9951-4YWS2G		Material Group:	
Incident Dt:		3/11/2019		Health/Env Conseq:	
Year:				Client Type:	
Incident Cause:				Sector Type:	
Incident Event:				Agency Involved:	
Contaminant Code:		24		Nearest Watercourse:	
Contaminant Name:		GLYCOL/WATER SOLUTION		Site Address:	
Contaminant Limit 1:				Site District Office:	
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:		n/a		Site Region:	
Environment Impact:				Site Municipality:	
Nature of Impact:				Site Lot:	
Receiving Medium:				Site Conc:	
Receiving Env:				Northing:	
MOE Response:		No		Easting:	
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	
MOE Reported Dt:		3/18/2019		Site Map Datum:	
Dt Document Closed:		3/22/2019		SAC Action Class:	
Incident Reason:				Source Type:	
Site Name:		3755 Riverside Drive			
Site County/District:		NA			
Site Geo Ref Meth:		NA			
Incident Summary:		IBM 1323 L of glycol to sanitary sewer			
Contaminant Qty:		1323 L			
3	13 of 13	WSW/128.1	98.9 / -0.08	IBM Canada Ltd 3755 Riverside Drive Ottawa ON K1G 4K9	GEN
Generator No:		ON8574389		PO Box No:	
Status:		Registered		Country:	
				Canada	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approval Years:		As of Jan 2021		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:					
SIC Description:					
<u>Detail(s)</u>					
Waste Class:		145 L			
Waste Class Desc:		Wastes from the use of pigments, coatings and paints			
Waste Class:		251 L			
Waste Class Desc:		Waste oils/sludges (petroleum based)			
Waste Class:		263 H			
Waste Class Desc:		Misc. waste organic chemicals			
Waste Class:		146 T			
Waste Class Desc:		Other specified inorganic sludges, slurries or solids			
Waste Class:		331 I			
Waste Class Desc:		Waste compressed gases including cylinders			
Waste Class:		148 C			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
<u>4</u>	1 of 1	NW/138.7	97.0 / -2.00	ON	WWIS
Well ID:		1508810		Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:		Commerical		Date Received:	
Sec. Water Use:		0		Selected Flag:	
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor:	
Casing Material:				Form Version:	
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	
Elevation (m):				Municipality:	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1508810.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:		10030844		Elevation:	
DP2BR:		67		Elevrc:	
Spatial Status:				Zone:	
Code OB:		r		East83:	
Code OB Desc:		Bedrock		North83:	
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	
Date Completed:		3/29/1960		UTMRC Desc:	
Remarks:				Location Method:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931010659			
Layer:		2			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		67			
Formation End Depth:		180			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		931010658			
Layer:		1			
Color:					
General Color:					
Mat1:		09			
Most Common Material:		MEDIUM SAND			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		67			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961508810			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10579414			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930054322			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth From:					
Depth To:		67			
Casing Diameter:		7			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930054323			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		180			
Casing Diameter:		7			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991508810			
Pump Set At:					
Static Level:		15			
Final Level After Pumping:		17			
Recommended Pump Depth:		17			
Pumping Rate:		20			
Flowing Rate:					
Recommended Pump Rate:		20			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933463491			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		160			
Water Found Depth UOM:		ft			

<u>5</u>	1 of 1	NW/138.8	97.0 / -2.00	ON	BORE
Borehole ID:					
612416				Inclin FLG:	No
OGF ID:		215513725		SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:		Borehole		Piezometer:	No
Use:				Primary Name:	
Completion Date:		MAR-1960		Municipality:	
Static Water Level:		36.9		Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.34188
Total Depth m:		54.9		Longitude DD:	-75.690653
Depth Ref:		Ground Surface		UTM Zone:	18
Depth Elev:				Easting:	445891
Drill Method:				Northing:	5021162

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Orig Ground Elev m: 99.1 Elev Reliabil Note: DEM Ground Elev m: 97.7 Concession: Location D: Survey D: Comments:					
Location Accuracy:					
Accuracy: Not Applicable					
Borehole Geology Stratum					
Geology Stratum ID: 218391205 Top Depth: 20.4 Bottom Depth: 54.9 Material Color: Grey Material 1: Limestone Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description: LIMESTONE. 00160ERS. LIMESTONE. GREY. 00098LE AT 204.0 FEET.BEDROCK. GREY. . 00 **Note: Many records provided by the department have a truncated [Stratum Description] field.					
Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:					
Geology Stratum ID: 218391204 Top Depth: 0 Bottom Depth: 20.4 Material Color: Material 1: Sand Material 2: Material 3: Material 4: Gsc Material Description: Stratum Description: SAND.					
Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:					
Source					
Source Type: Data Survey Source Orig: Geological Survey of Canada Source Date: 1956-1972 Confidence: Observatio: Source Name: Urban Geology Automated Information System (UGAIS) Source Details: File: OTTAWA1.txt RecordID: 04924 NTS_Sheet: Confiden 1:					
Source Appl: Spatial/Tabular Source Iden: 1 Scale or Res: Varies Horizontal: NAD27 Verticalda: Mean Average Sea Level					
Source List					
Source Identifier: 1 Source Type: Data Survey Source Date: 1956-1972 Scale or Resolution: Varies Source Name: Urban Geology Automated Information System (UGAIS) Source Originators: Geological Survey of Canada					
Horizontal Datum: NAD27 Vertical Datum: Mean Average Sea Level Projection Name: Universal Transverse Mercator					
<u>6</u>	1 of 1	WSW/184.5	99.2 / 0.22	ON	BORE
Borehole ID: 612407 OGF ID: 215513716 Status: Type: Borehole Use: Completion Date: OCT-1959					
Inclin FLG: No SP Status: Initial Entry Surv Elev: No Piezometer: No Primary Name: Municipality:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Static Water Level:	-62.0			Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.340075
Total Depth m:	76.2			Longitude DD:	-75.691396
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	445831
Drill Method:				Northing:	5020962
Orig Ground Elev m:	0			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	101				
Concession:					
Location D:					
Survey D:					
Comments:					
Source					
Source Type:	Data Survey			Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada			Source Iden:	1
Source Date:	1956-1972			Scale or Res:	Varies
Confidence:				Horizontal:	NAD27
Observation:				Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Details:	File: OTTAWA1.txt RecordID: 04915 NTS_Sheet:				
Confiden 1:					
Source List					
Source Identifier:	1			Horizontal Datum:	NAD27
Source Type:	Data Survey			Vertical Datum:	Mean Average Sea Level
Source Date:	1956-1972			Projection Name:	Universal Transverse Mercator
Scale or Resolution:	Varies				
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Originators:	Geological Survey of Canada				

Bore Hole Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID:	10030830			Elevation:	101.128425
DP2BR:	23			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	445830.7
Code OB Desc:	Bedrock			North83:	5020962
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	9
Date Completed:	10/10/1959			UTMRC Desc:	unknown UTM
Remarks:				Location Method:	p9
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931010613				
Layer:	1				
Color:					
General Color:					
Mat1:	23				
Most Common Material:	PREVIOUSLY DUG				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	0				
Formation End Depth:	16				
Formation End Depth UOM:	ft				
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931010615				
Layer:	3				
Color:					
General Color:					
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	23				
Formation End Depth:	97				
Formation End Depth UOM:	ft				
 <u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	931010614				
Layer:	2				
Color:					
General Color:					
Mat1:	13				
Most Common Material:	BOULDERS				
Mat2:	11				
Mat2 Desc:	GRAVEL				
Mat3:	09				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc:		MEDIUM SAND			
Formation Top Depth:		16			
Formation End Depth:		23			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961508796			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10579400			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930054293			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		30			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930054294			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		97			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991508796			
Pump Set At:					
Static Level:		22			
Final Level After Pumping:		55			
Recommended Pump Depth:		55			
Pumping Rate:		4			
Flowing Rate:					
Recommended Pump Rate:		3			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Details					
Water ID:		933463472			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		95			
Water Found Depth UOM:		ft			
<u>8</u>	1 of 17	NNW/184.9	95.8 / -3.20	RIVERSIDE ESSO J BROOKS AGENT 3705 RIVERSIDE DR OTTAWA ON K1V1G8	PRT
Location ID:		11076			
Type:		retail			
Expiry Date:		1995-09-30			
Capacity (L):		70370			
Licence #:		0076426568			
<u>8</u>	2 of 17	NNW/184.9	95.8 / -3.20	ESSO SHOP 3705 RIVERSIDE DR OTTAWA ON K1V1G8	RST
Headcode:		1186800			
Headcode Desc:		Service Stations-Gasoline, Oil & Natural Gas			
Phone:		6137399724			
List Name:					
Description:					
<u>8</u>	3 of 17	NNW/184.9	95.8 / -3.20	RIVERSIDE ESSO 3705 RIVERSIDE DR OTTAWA ON K1V 1G8	RST
Headcode:		1186800			
Headcode Desc:		Service Stations-Gasoline, Oil & Natural Gas			
Phone:		6137399724			
List Name:					
Description:					
<u>8</u>	4 of 17	NNW/184.9	95.8 / -3.20	3705 Riverside Drive Ottawa ON K1V 1G8	EHS
Order No:		20120214071		Nearest Intersection:	
Status:		C		Municipality:	
Report Type:		Custom Report		Client Prov/State:	ON
Report Date:		2/24/2012		Search Radius (km):	0.25
Date Received:		2/14/2012 2:49:24 PM		X:	-75.690339
Previous Site Name:				Y:	45.342499
Lot/Building Size:					
Additional Info Ordered:		Fire Insur. Maps and/or Site Plans;			
<u>8</u>	5 of 17	NNW/184.9	95.8 / -3.20	MAC'S CONVENIENCE STORES INC 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	FST

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Instance No:	10906497			Manufacturer:	NULL
Status:	Active			Serial No:	NULL
Cont Name:				Ulc Standard:	NULL
Instance Type:	FS Liquid Fuel Tank			Quantity:	1
Item:	FS LIQUID FUEL TANK			Unit of Measure:	EA
Item Description:	FS Liquid Fuel Tank			Fuel Type:	Gasoline
Tank Type:	Single Wall UST			Fuel Type2:	NULL
Install Date:	5/21/2009			Fuel Type3:	NULL
Install Year:	1988			Piping Steel:	
Years in Service:	1.9			Piping Galvanized:	
Model:	NULL			Tanks Single Wall St:	
Description:				Piping Underground:	
Capacity:	31800			Num Underground:	
Tank Material:	Fiberglass (FRP)			Panam Related:	NULL
Corrosion Protect:	Fiberglass			Panam Venue:	NULL
Overfill Protect:					
Facility Type:	FS Liquid Fuel Tank				
Parent Facility Type:	FS Gasoline Station - Self Serve				
Facility Location:	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA				
Device Installed Location:	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA				

Fuel Storage Tank Details

Owner Account Name: MAC'S CONVENIENCE STORES INC

Liquid Fuel Tank Details

Overfill Protection: NULL

Owner Account Name: MAC'S CONVENIENCE STORES INC

8	6 of 17	NNW/184.9	95.8 / -3.20	MAC'S CONVENIENCE STORES INC 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	FST
Instance No:	10906488			Manufacturer:	NULL
Status:	Active			Serial No:	NULL
Cont Name:				Ulc Standard:	NULL
Instance Type:	FS Liquid Fuel Tank			Quantity:	1
Item:	FS LIQUID FUEL TANK			Unit of Measure:	EA
Item Description:	FS Liquid Fuel Tank			Fuel Type:	Gasoline
Tank Type:	Single Wall UST			Fuel Type2:	NULL
Install Date:	5/21/2009			Fuel Type3:	NULL
Install Year:	1988			Piping Steel:	
Years in Service:	1.9			Piping Galvanized:	
Model:	NULL			Tanks Single Wall St:	
Description:				Piping Underground:	
Capacity:	31800			Num Underground:	
Tank Material:	Fiberglass (FRP)			Panam Related:	NULL
Corrosion Protect:	Fiberglass			Panam Venue:	NULL
Overfill Protect:					
Facility Type:	FS Liquid Fuel Tank				
Parent Facility Type:	FS Gasoline Station - Self Serve				
Facility Location:	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA				
Device Installed Location:	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA				

Fuel Storage Tank Details

Owner Account Name: MAC'S CONVENIENCE STORES INC

Liquid Fuel Tank Details

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Overfill Protection: NULL Owner Account Name: MAC'S CONVENIENCE STORES INC					
8	7 of 17	NNW/184.9	95.8 / -3.20	MAC'S CONVENIENCE STORES INC 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	FST
Instance No: 10906512 Status: Active Cont Name: Instance Type: FS Liquid Fuel Tank Item: FS LIQUID FUEL TANK Item Description: FS Liquid Fuel Tank Tank Type: Single Wall UST Install Date: 5/21/2009 Install Year: 1988 Years in Service: 1.9 Model: NULL Description: Capacity: 31800 Tank Material: Fiberglass (FRP) Corrosion Protect: Fiberglass Overfill Protect: Facility Type: FS Liquid Fuel Tank Parent Facility Type: FS Gasoline Station - Self Serve Facility Location: 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA Device Installed Location: 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA Manufacturer: NULL Serial No: NULL Ulc Standard: NULL Quantity: 1 Unit of Measure: EA Fuel Type: Gasoline Fuel Type2: NULL Fuel Type3: NULL Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: Num Underground: Panam Related: NULL Panam Venue: NULL					
Fuel Storage Tank Details Owner Account Name: MAC'S CONVENIENCE STORES INC					
Liquid Fuel Tank Details Overfill Protection: NULL Owner Account Name: MAC'S CONVENIENCE STORES INC					
8	8 of 17	NNW/184.9	95.8 / -3.20	MAC'S CONVENIENCE STORES INC 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	FST
Instance No: 10906503 Status: Active Cont Name: Instance Type: FS Liquid Fuel Tank Item: FS LIQUID FUEL TANK Item Description: FS Liquid Fuel Tank Tank Type: Single Wall UST Install Date: 5/21/2009 Install Year: 1988 Years in Service: 1.9 Model: NULL Description: Capacity: 31800 Tank Material: Fiberglass (FRP) Corrosion Protect: Fiberglass Overfill Protect: Facility Type: FS Liquid Fuel Tank Parent Facility Type: FS Gasoline Station - Self Serve Facility Location: 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA Device Installed Location: 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA Manufacturer: NULL Serial No: NULL Ulc Standard: NULL Quantity: 1 Unit of Measure: EA Fuel Type: Gasoline Fuel Type2: NULL Fuel Type3: NULL Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: Num Underground: Panam Related: NULL Panam Venue: NULL					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Fuel Storage Tank Details</u>					
Owner Account Name:	MAC'S CONVENIENCE STORES INC				
<u>Liquid Fuel Tank Details</u>					
Overfill Protection:	NULL				
Owner Account Name:	MAC'S CONVENIENCE STORES INC				
<u>8</u>	9 of 17	NNW/184.9	95.8 / -3.20	Imperial Oil 3705 Riverside Drive Ottawa ON	GEN
Generator No:	ON8677772			PO Box No:	
Status:				Country:	
Approval Years:	2012			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	447110				
SIC Description:	Gasoline Stations with Convenience Stores				
<u>8</u>	10 of 17	NNW/184.9	95.8 / -3.20	Imperial Oil 3705 Riverside Drive Ottawa ON	GEN
Generator No:	ON8677772			PO Box No:	
Status:				Country:	
Approval Years:	2013			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	447110				
SIC Description:					
<u>Detail(s)</u>					
Waste Class:	251				
Waste Class Desc:	OIL SKIMMINGS & SLUDGES				
Waste Class:	221				
Waste Class Desc:	LIGHT FUELS				
<u>8</u>	11 of 17	NNW/184.9	95.8 / -3.20	1343615 ONTARIO INC 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	EXP
Instance No:	64533186			Model:	NULL
Status:	EXPIRED			Quantity:	1
Instance ID:				Unit of Measure:	EA
Instance Type:				Fuel Type2:	NULL
Instance Creation Dt:	7/9/2012 6:29:30 AM			Fuel Type3:	NULL
Instance Install Dt:	7/9/2012 6:29:30 AM			Piping Steel:	
Item:				Piping Galvanized:	
Item Description:	FS Liquid Fuel Tank			Tank Single Wall St:	
Facility Type:	FS LIQUID FUEL TANK			Piping Underground:	
Overfill Prot Type:	Alarm			Tank Underground:	
Creation Date:	7/9/2012 6:30:25 AM			Panam Related:	NULL
Expired Date:				Panam Venue Nm:	NULL
Manufacturer:	NULL				
Source:	FS Liquid Fuel Tank				
Description:	2012V AMB				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Serial No: Ulc Standard: Facility Location:		NULL NULL 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA			
8	12 of 17	NNW/184.9	95.8 / -3.20	1343615 ONTARIO INC 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	EXP
Instance No: 64533187 Status: EXPIRED Instance ID: Instance Type: Instance Creation Dt: 7/9/2012 6:30:42 AM Instance Install Dt: 7/9/2012 6:29:30 AM Item: Item Description: FS Liquid Fuel Tank Facility Type: FS LIQUID FUEL TANK Overfill Prot Type: Alarm Creation Date: 7/9/2012 6:30:42 AM Expired Date: Manufacturer: NULL Source: FS Liquid Fuel Tank Description: 2012V AMB Serial No: NULL Ulc Standard: NULL Facility Location: 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA		Model: NULL Quantity: 1 Unit of Measure: EA Fuel Type2: NULL Fuel Type3: NULL Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground: Panam Related: NULL Panam Venue Nm: NULL			
8	13 of 17	NNW/184.9	95.8 / -3.20	1343615 ONTARIO INC 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	EXP
Instance No: 64533188 Status: EXPIRED Instance ID: Instance Type: Instance Creation Dt: 7/9/2012 6:30:45 AM Instance Install Dt: 7/9/2012 6:29:30 AM Item: Item Description: FS Liquid Fuel Tank Facility Type: FS LIQUID FUEL TANK Overfill Prot Type: Alarm Creation Date: 7/9/2012 6:30:45 AM Expired Date: Manufacturer: NULL Source: FS Liquid Fuel Tank Description: 2012V AMB Serial No: NULL Ulc Standard: NULL Facility Location: 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA		Model: NULL Quantity: 1 Unit of Measure: EA Fuel Type2: NULL Fuel Type3: NULL Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground: Panam Related: NULL Panam Venue Nm: NULL			
8	14 of 17	NNW/184.9	95.8 / -3.20	1343615 ONTARIO INC 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	FST
Instance No: 64533186 Status: Cont Name: Instance Type: Item: Item Description: FS LIQUID FUEL TANK FS Liquid Fuel Tank		Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Gasoline			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Tank Type:	Double Wall UST			Fuel Type2:	NULL
Install Date:	7/9/2012 6:29:30 AM			Fuel Type3:	NULL
Install Year:	2012			Piping Steel:	
Years in Service:				Piping Galvanized:	
Model:	NULL			Tanks Single Wall St:	
Description:				Piping Underground:	
Capacity:	50000			Num Underground:	
Tank Material:	Fiberglass (FRP)			Panam Related:	
Corrosion Protect:				Panam Venue:	
Overfill Protect:					
Facility Type:	FS Liquid Fuel Tank				
Parent Facility Type:					
Facility Location:					
Device Installed Location:	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA				

Fuel Storage Tank Details

Owner Account Name: 1343615 ONTARIO INC

<u>8</u>	15 of 17	NNW/184.9	95.8 / -3.20	1343615 ONTARIO INC 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	FST
Instance No:	64533188			Manufacturer:	
Status:				Serial No:	
Cont Name:				Ulc Standard:	
Instance Type:				Quantity:	
Item:	FS LIQUID FUEL TANK			Unit of Measure:	
Item Description:	FS Liquid Fuel Tank			Fuel Type:	Gasoline
Tank Type:	Double Wall UST			Fuel Type2:	NULL
Install Date:	7/9/2012 6:29:30 AM			Fuel Type3:	NULL
Install Year:	2012			Piping Steel:	
Years in Service:				Piping Galvanized:	
Model:	NULL			Tanks Single Wall St:	
Description:				Piping Underground:	
Capacity:	50000			Num Underground:	
Tank Material:	Fiberglass (FRP)			Panam Related:	
Corrosion Protect:				Panam Venue:	
Overfill Protect:					
Facility Type:	FS Liquid Fuel Tank				
Parent Facility Type:					
Facility Location:					
Device Installed Location:	3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA				

Fuel Storage Tank Details

Owner Account Name: 1343615 ONTARIO INC

<u>8</u>	16 of 17	NNW/184.9	95.8 / -3.20	3705 RIVERSIDE DR OTTAWA ON K1V 1G8	FST
Instance No:	9811716			Manufacturer:	
Status:	Active			Serial No:	
Cont Name:				Ulc Standard:	
Instance Type:				Quantity:	
Item:	FS GASOLINE STATION - SELF SERVE			Unit of Measure:	
Item Description:				Fuel Type:	
Tank Type:				Fuel Type2:	
Install Date:				Fuel Type3:	
Install Year:				Piping Steel:	1
Years in Service:				Piping Galvanized:	1
Model:				Tanks Single Wall St:	0
Description:				Piping Underground:	3

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Capacity: Tank Material: Corrosion Protect: Overfill Protect: Facility Type: Parent Facility Type: Facility Location: Device Installed Location:					
Num Underground: 4 Panam Related: Panam Venue:					
8	17 of 17	NNW/184.9	95.8 / -3.20	1343615 ONTARIO INC 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA ON	FST
Instance No: 64533187 Status: Cont Name: Instance Type: Item: FS LIQUID FUEL TANK Item Description: FS Liquid Fuel Tank Tank Type: Double Wall UST Install Date: 7/9/2012 6:29:30 AM Install Year: 2012 Years in Service: Model: NULL Description: Capacity: 50000 Tank Material: Fiberglass (FRP) Corrosion Protect: Overfill Protect: Facility Type: FS Liquid Fuel Tank Parent Facility Type: Facility Location: Device Installed Location: 3705 RIVERSIDE DR OTTAWA K1V 1G8 ON CA					
Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Gasoline Fuel Type2: NULL Fuel Type3: NULL Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: Num Underground: Panam Related: Panam Venue:					
<u>Fuel Storage Tank Details</u>					
Owner Account Name: 1343615 ONTARIO INC					
9	1 of 1	NW/191.6	96.0 / -3.00	NEWILL CORPORATION-LOTS 5&6, CONC. 2 RIVERSIDE DR./KIMBERWICK CR. OTTAWA CITY ON	CA
Certificate #: 7-1129-91- Application Year: 91 Issue Date: 9/23/1991 Approval Type: Municipal water Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
10	1 of 1	NNW/221.1	96.0 / -3.00	ON	WWIS
Well ID: 7193375 Construction Date: Primary Water Use:					
Data Entry Status: Yes Data Src: Date Received: 12/11/2012					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Sec. Water Use: Final Well Status: Water Type: Casing Material: Audit No: C15838 Tag: A122946 Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				Selected Flag: Yes Abandonment Rec: Contractor: 1844 Form Version: 8 Owner: Street Name: County: OTTAWA Municipality: GLOUCESTER TOWNSHIP Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	
PDF URL (Map):					
<u>Bore Hole Information</u>					
Bore Hole ID: 1004219230 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 4/10/2012 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:				Elevation: 95.527786 Elevrc: Zone: 18 East83: 445900 North83: 5021265 Org CS: UTM83 UTMRC: 4 UTMRC Desc: margin of error : 30 m - 100 m Location Method: wwr	
11	1 of 1	ENE/225.6	97.9 / -1.08	36 Chatsworth Ave,Ottawa ON	PINC
Incident ID: 2696604 Incident No: 540146 Incident Reported Dt: Type: FS-Pipeline Incident Status Code: Pipeline Damage Reason Est Customer Acct Name: Incident Address: Tank Status: RC Established Task No: 3245264 Spills Action Centre: Fuel Type: Natural Gas Fuel Occurrence Tp: Pipeline Strike Date of Occurrence: 10/13/2010 0:00 Occurrence Start Dt: 2011/06/06 Operation Type: Construction Site (pipeline strike) Pipeline Type: Main Distribution Pipeline Regulator Type: Service Regulator (up to 60 psi intake) Summary: 36 Chatsworth Ave,Ottawa - 1 ¼" Pipeline Hit Reported By: Stiles, Jeff - Enbridge Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.) Occurrence Desc: directional boring Damage Reason: Excavation practices not sufficient Notes: failed to hand locate				Fuel Category: Natural Gas Health Impact: No Environment Impact: No Property Damage: Yes Service Interupt: Yes Enforce Policy: Yes Public Relation: No Pipeline System: Transmission pipeline Depth: 40 Pipe Material: Plastic PSIG: 53 Attribute Category: FS-Perform P-line Inc Invest Regulator Location: Outside Method Details: E-mail	

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
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Unplottable Summary

Total: 47 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	CAMPEAU CORP.	RIVERSIDE DR.	OTTAWA ON	
CA	CAMPEAU CORP.	RIVERSIDE DR.	OTTAWA ON	
CA	Riverwalk Park Subdivision	Kimberwick Crescent	Ottawa ON	
CA	PEREZ CORPORATION	STREET NO. 1 RIVERSIDE DR.	OTTAWA CITY ON	
CA	R.M. OF OTTAWA-CARL.S.E. TRANSITWAY ST. 1	E. SIDE OF RIVERSIDE DR.	OTTAWA CITY ON	
CA	J. PEREZ CORPORATION STM MGN. 3-0842-87	STREET #1 RIVERSIDE DR.	OTTAWA CITY ON	
CONV	IMPERIAL OIL LIMITED		NORTH YORK ON	
CONV	IMPERIAL OIL LIMITED		DON MILLS ON	
ECA	City of Ottawa	Riverside Drive	Ottawa ON	K1S 5K2
GEN	PUBLIC WORKS CANADA	SIR CHARLES TUPPER BUILDING CONFEDERATION HEIGHTS- RIVERSIDE DRIVE	OTTAWA ON	
GEN	OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF	HURDMAN'S BRIDGE, PUMPING STATION RIVERSIDE DRIVE	OTTAWA ON	
GEN	GVT. OF CAN.-NATIONAL DEFENSE 17-625	OFF UPLANDS DRIVE BLDG.308 FUEL FARM C/O CFB OTTAWA S.	GLOUCESTER ON	K1A 0K5
GEN	DEPT. OF NATIONAL DEFENCE	BUILDING 308, FUEL FARM OFF UPLANDS DRIVE	GLOUCESTER ON	
GEN	GVT. OF CAN. - PUBLIC WORKS CANADA	REPROGRAPHIC SERVICES TUPPER BLDG. RIVERSIDE DRIVE	OTTAWA ON	K1A 0M2
GEN	GVT. OF CAN. - PUBLIC WORKS CANADA18-229	SIR CHARLES TUPPER BUILDING CONFEDERATION HEIGHTS, RIVERSIDE DRIVE	OTTAWA ON	
NDFT		UPLANDS SITE	ON	
NDFT		UPLANDS SITE	ON	

NDFT		UPLANDS DRIVE	ON
NDFT		UPLANDS SITE	ON
NDFT		UPLANDS DRIVE	ON
NDFT		UPLANDS DRIVE	ON
NDFT		Uplands Site	ON
NDFT		UPLANDS DRIVE	ON
NDFT		UPLANDS SITE	ON
NDFT		UPLANDS SITE	ON
PTTW	Ottawa Hunt & Golf Club Limited	Lot 5, Concession II, City of Ottawa (geographic Township of Gloucester) CITY OF OTTAWA	ON
PTTW	Ottawa Hunt and Golf Club Limited	Lot 5, Concession 2, Gloucester (Part: 1, Plan: 4R-7577), Ottawa CITY OF OTTAWA	ON
PTTW	Ottawa Hunt and Golf Club, Limited	Lot 5, Concession 2 City of Ottawa, Ontario CITY OF OTTAWA	ON
SPL	Esso Petroleum Canada, A Division of Imperial Oil Limited	Nepean	Ottawa ON
SPL	ULTRAMAR	RIVERSIDE DRIVE AT TRANSIT WAY (NEAR POST OFFICE) TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	ESSO PETROLEUM CANADA	TRANSPORT TRUCK (CARGO)	OTTAWA CITY ON
SPL	ESSO PETROLEUM CANADA	TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	GLOUCESTER HYDRO	UPLANDS MS SUBSTATION ON UPLANDS DRIVE TRANSFORMER	GLOUCESTER CITY ON
SPL	ESSO PETROLEUM CANADA	OTTAWA AIRPORT TANK TRUCK (CARGO)	OTTAWA CITY ON
SPL	ONTARIO HYDRO	LOT 5 CONC 2 HUNTLEY TWP. TRANSFORMER	OTTAWA-CARLETON R. M. ON
SPL	ESSO PETROLEUM CANADA	ESSO DISTRIBUTION STATION BULK STATION	OTTAWA CITY ON
SPL	ESSO PETROLEUM CANADA	BULK STATION	OTTAWA CITY ON
WWIS		lot 4 con 2	ON
WWIS		lot 5	ON
WWIS		lot 4	ON

WWIS	lot 4	ON
WWIS	lot 5	ON
WWIS	lot 5	ON
WWIS	lot 5	ON
WWIS	lot 5	ON
WWIS	lot 5	ON
WWIS	lot 5	ON

Unplottable Report

Site: CAMPEAU CORP.
RIVERSIDE DR. OTTAWA ON

Database:
CA

Certificate #: 3-0118-85-006
Application Year: 85
Issue Date: 3/1/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: CAMPEAU CORP.
RIVERSIDE DR. OTTAWA ON

Database:
CA

Certificate #: 7-0165-85-006
Application Year: 85
Issue Date: 3/29/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Riverwalk Park Subdivision
Kimberwick Crescent Ottawa ON

Database:
CA

Certificate #: 3-0842-87-006
Application Year: 02
Issue Date: 2/7/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: Notice
Client Name: Claridge Homes (Briar Ridge) Inc.
Client Address: 210 Gladstone Avenue
Client City: Ottawa
Client Postal Code: K4B 1H9
Project Description: This application is for an amendment to an existing Certificate of Approval for a minor adjustment to the overflow weir to provide improved maintenance of the outlet control.
Contaminants:
Emission Control:

Site: PEREZ CORPORATION
STREET NO. 1 RIVERSIDE DR. OTTAWA CITY ON

Database:
CA

Certificate #: 7-0478-87-

Application Year: 87
Issue Date: 5/5/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: R.M. OF OTTAWA-CARL.S.E.TRANSITWAY ST. 1
E. SIDE OF RIVERSIDE DR. OTTAWA CITY ON

Database:
CA

Certificate #: 7-0818-89-
Application Year: 89
Issue Date: 5/29/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: J. PEREZ CORPORATION STM MGN. 3-0842-87
STREET #1 RIVERSIDE DR. OTTAWA CITY ON

Database:
CA

Certificate #: 3-0563-87-
Application Year: 87
Issue Date: 5/5/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: IMPERIAL OIL LIMITED
NORTH YORK ON

Database:
CONV

File No:
Crown Brief No:
Court Location:
Publication City:
Publication Title:
Act:
Act(s):
First Matter:
Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed:
Description: FAILED TO INSPECT OIL/WATER SEPARATOR WEEKLY & MAINTAIN LOG BOOK AT SITE
Background:
URL:

Location:
Region: EASTERN REGION
Ministry District:

Additional Details

Publication Date:
Count: 1
Act: OWRA
Regulation:
Section: 66(3)
Act/Regulation/Section: OWRA- -66(3)
Date of Offence:
Date of Conviction:
Date Charged: 6/4/93
Charge Disposition:
Fine: \$4,000
Synopsis:

Additional Details

Publication Date:
Count: 1
Act: OWRA
Regulation:
Section: 66(3)
Act/Regulation/Section: OWRA- -66(3)
Date of Offence:
Date of Conviction:
Date Charged: 6/4/93
Charge Disposition:
Fine: \$1,000
Synopsis:

Site: IMPERIAL OIL LIMITED
DON MILLS ON

Database:
CONV

File No:
Crown Brief No:
Court Location:
Publication City:
Publication Title:
Act:
Act(s):
First Matter:
Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed:
Description: FAILED TO COMPLY WITH CONDITIONS OF C. OF A.
Background:
URL:

Location:
Region: EASTERN REGION
Ministry District:

Additional Details

Publication Date:
Count: 1
Act: OWRA
Regulation:
Section: 66(3)
Act/Regulation/Section: OWRA- -66(3)
Date of Offence:
Date of Conviction:
Date Charged: 6/4/93
Charge Disposition:
Fine: \$6,000
Synopsis:

Site: City of Ottawa

Database:
ECA

Riverside Drive Ottawa ON K1S 5K2

Approval No:	6330-5XEKCD	MOE District:
Approval Date:	2004-03-29	City:
Status:	Approved	Longitude:
Record Type:	ECA	Latitude:
Link Source:	IDS	Geometry X:
SWP Area Name:		Geometry Y:
Approval Type:	ECA-Municipal Drinking Water Systems	
Project Type:	Municipal Drinking Water Systems	
Business Name:	City of Ottawa	
Address:	Riverside Drive	
Full Address:		
Full PDF Link:		

Site: PUBLIC WORKS CANADA
SIR CHARLES TUPPER BUILDING CONFEDERATION HEIGHTS- RIVERSIDE DRIVE OTTAWA ON

Database:
GEN

Generator No:	ON0144720	PO Box No:
Status:		Country:
Approval Years:	98,99,00,01	Choice of Contact:
Contam. Facility:		Co Admin:
MHSW Facility:		Phone No Admin:
SIC Code:	8159	
SIC Description:	OTHER GEN. ADMIN.	

Detail(s)

Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	243
Waste Class Desc:	PCB'S
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES

Site: OTTAWA-CARLTON, REGIONAL MUNICIPALITY OF
HURDMAN'S BRIDGE, PUMPING STATION RIVERSIDE DRIVE OTTAWA ON

Database:
GEN

Generator No:	ON0303122	PO Box No:
Status:		Country:
Approval Years:	98	Choice of Contact:
Contam. Facility:		Co Admin:
MHSW Facility:		Phone No Admin:
SIC Code:	8272	
SIC Description:	RES. CONS./IND. DEV.	

Detail(s)

Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES

Site: GVT. OF CAN.-NATIONAL DEFENSE 17-625
OFF UPLANDS DRIVE BLDG.308 FUEL FARM C/O CFB OTTAWA S. GLOUCESTER ON K1A 0K5

Database:
GEN

Generator No:	ON0046573	PO Box No:
Status:		Country:
Approval Years:	94,95,96	Choice of Contact:
Contam. Facility:		Co Admin:
MHSW Facility:		Phone No Admin:
SIC Code:	8111	
SIC Description:	DEFENCE SERVICES	

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Site: DEPT. OF NATIONAL DEFENCE
BUILDING 308, FUEL FARM OFF UPLANDS DRIVE GLOUCESTER ON

Database:
GEN

Generator No:	ON0046573	PO Box No:	
Status:		Country:	
Approval Years:	98,99,00,01	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:	8111		
SIC Description:	DEFENCE SERVICES		

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Site: GVT. OF CAN. - PUBLIC WORKS CANADA
REPROGRAPHIC SERVICES TUPPER BLDG. RIVERSIDE DRIVE OTTAWA ON K1A 0M2

Database:
GEN

Generator No:	ON0144720	PO Box No:	
Status:		Country:	
Approval Years:	86,87,88,89,90	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:	8159		
SIC Description:	OTHER GEN. ADMIN.		

Detail(s)

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

Site: GVT. OF CAN. - PUBLIC WORKS CANADA18-229
SIR CHARLES TUPPER BUILDING CONFEDERATION HEIGHTS, RIVERSIDE DRIVE OTTAWA ON

Database:
GEN

Generator No:	ON0144720	PO Box No:	
Status:		Country:	
Approval Years:	92,93,94,95,96,97	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:	8159		
SIC Description:	OTHER GEN. ADMIN.		

Detail(s)

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 243
Waste Class Desc: PCB'S

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site:

Database:
NDET

UPLANDS SITE ON

Property Id: K6144
Base Name: CFB OTTAWA
Status: Tank no longer in service and removed
Status As Of: May 25, 2001
Tank Class: Operating tank for heating or emergency power generator
Install Year: 1995
Tank Type: More Info Needed
Last Year Used: 1998
Tank Contents: Heating fuel / furnace oil
Capacity (L): 45000

Site: UPLANDS SITE ON

Database:
NDFT

Property Id: K6150
Base Name: CFB OTTAWA
Status: Tank no longer in service and removed
Status As Of: May 25, 2001
Tank Class:
Install Year: 1992
Tank Type: Underground
Last Year Used: 1997
Tank Contents: Organic chemicals, alcohols
Capacity (L): 10000

Site: UPLANDS DRIVE ON

Database:
NDFT

Property Id: K6138
Base Name: CFB OTTAWA
Status: Tank no longer in service and removed
Status As Of: May 25, 2001
Tank Class: Bulk Storage (i.e. >45 000 litres)
Install Year: 1954
Tank Type: Aboveground Field-erected
Last Year Used: 1994
Tank Contents: Empty
Capacity (L): 864000

Site: UPLANDS SITE ON

Database:
NDFT

Property Id: K6143
Base Name: CFB OTTAWA
Status: Tank no longer in service and removed
Status As Of: May 25, 2001
Tank Class: Operating tank for heating or emergency power generator
Install Year: 1995
Tank Type: More Info Needed
Last Year Used: 1998
Tank Contents: Heating fuel / furnace oil
Capacity (L): 45000

Site: UPLANDS DRIVE ON

Database:
NDFT

Property Id: K6140
Base Name: CFB OTTAWA
Status: Tank no longer in service and removed
Status As Of: May 25, 2001
Tank Class: Bulk Storage (i.e. >45 000 litres)
Install Year: 1954

Tank Type: Aboveground Field-erected
Last Year Used: 1994
Tank Contents: Empty
Capacity (L): 864000

Site:
UPLANDS DRIVE ON

Database:
NDFT

Property Id: K6139
Base Name: CFB OTTAWA
Status: Tank no longer in service and removed
Status As Of: May 25, 2001
Tank Class: Bulk Storage (i.e. >45 000 litres)
Install Year: 1954
Tank Type: Aboveground Field-erected
Last Year Used: 1994
Tank Contents: Empty
Capacity (L): 864000

Site:
Uplands Site ON

Database:
NDFT

Property Id: K6141
Base Name: (0002) CF SUPPORT UNIT (OTTAWA)
Status: Tank currently active
Status As Of: May 25, 2001
Tank Class: Tank with pumps to fuel vehicles, airplanes, boats, etc
Install Year: 1995
Tank Type: More Info Needed
Last Year Used:
Tank Contents: Diesel
Capacity (L): 45000

Site:
UPLANDS DRIVE ON

Database:
NDFT

Property Id: K6137
Base Name: CFB OTTAWA
Status: Tank no longer in service and removed
Status As Of: May 25, 2001
Tank Class: Bulk Storage (i.e. >45 000 litres)
Install Year: 1954
Tank Type: Aboveground Field-erected
Last Year Used: 1994
Tank Contents: Empty
Capacity (L): 864000

Site:
UPLANDS SITE ON

Database:
NDFT

Property Id: K6145
Base Name: (0002) CF SUPPORT UNIT (OTTAWA)
Status: Tank currently active
Status As Of: May 25, 2001
Tank Class: Tank with pumps to fuel vehicles, airplanes, boats, etc
Install Year: 1994
Tank Type: More Info Needed
Last Year Used:
Tank Contents: Unleaded Gasoline
Capacity (L): 15000

Site:

Database:

Property Id: K6142
Base Name: (0002) CF SUPPORT UNIT (OTTAWA)
Status: Tank currently active
Status As Of: May 25, 2001
Tank Class: Operating tank for heating or emergency power generator
Install Year: 1995
Tank Type: More Info Needed
Last Year Used:
Tank Contents: Heating fuel / furnace oil
Capacity (L): 45000

Site: **Ottawa Hunt & Golf Club Limited**
Lot 5, Concession II, City of Ottawa (geographic Township of Gloucester) CITY OF OTTAWA ON

Database:
PTTW

EBR Registry No: IA05E0019
Ministry Ref No: ER-0608-67WSSP
Notice Type: Instrument Decision
Notice Stage:
Notice Date: April 29, 2005
Proposal Date: January 07, 2005
Year: 2005
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Ottawa Hunt & Golf Club Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 1 Hunt Club Road, Ottawa Ontario, K1V 1B9
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Lot 5, Concession II, City of Ottawa (geographic Township of Gloucester) CITY OF OTTAWA

Site: **Ottawa Hunt and Golf Club Limited**
Lot 5, Concession 2, Gloucester (Part: 1, Plan: 4R-7577), Ottawa CITY OF OTTAWA ON

Database:
PTTW

EBR Registry No: 010-2796
Ministry Ref No: 7076-7A2KW2
Notice Type: Instrument Decision
Notice Stage:
Notice Date: June 04, 2008
Proposal Date: February 14, 2008
Year: 2008
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Ottawa Hunt and Golf Club Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 1 Hunt Club Road, Ottawa Ontario, Canada K1V 1B9
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Lot 5, Concession 2, Gloucester (Part: 1, Plan: 4R-7577), Ottawa CITY OF OTTAWA

Site: Ottawa Hunt and Golf Club, Limited
Lot 5, Concession 2 City of Ottawa, Ontario CITY OF OTTAWA ON

Database:
PTTW

EBR Registry No: 013-2682
Ministry Ref No: 0641-AX8JAH
Notice Type: Instrument Decision
Notice Stage:
Notice Date: September 19, 2018
Proposal Date: March 27, 2018
Year: 2018
Instrument Type: Permit to Take Water - OWRA s. 34
Off Instrument Name:
Posted By:
Company Name: Ottawa Hunt and Golf Club, Limited(OWRA s. 34) - Permit to Take Water
Site Address:
Location Other:
Proponent Name: Ottawa Hunt and Golf Club, Limited
Proponent Address: 1 Hunt Club Road
Ottawa Ontario
Canada K1V 1B9
Comment Period:
URL: <http://www.ebr.gov.on.ca/ERS-WEB-External/displaynoticecontent.do?noticeId=MTM0OTYz&statusId=MjA3Mzcy&language=en>

Site Location Details:

Lot 5, Concession 2
City of Ottawa, Ontario
CITY OF OTTAWA

Site: Esso Petroleum Canada, A Division of Imperial Oil Limited
Nepean Ottawa ON

Database:
SPL

Ref No: 0874-78WNRU
Site No:
Incident Dt:
Year:
Incident Cause: Pipe Or Hose Leak
Incident Event:
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Confirmed
Nature of Impact: soil contamination
Receiving Medium: Land
Receiving Env:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 11/13/2007
Dt Document Closed: 11/16/2007
Incident Reason: Equipment Failure
Site Name: 1961 Merivale Rd<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Errentom Tanklines - 8L diesel to grd
Contaminant Qty: 8 L
Discharger Report:
Material Group: Oil
Health/Env Conseq:
Client Type:
Sector Type: Tank Truck
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: ULTRAMAR
RIVERSIDE DRIVE AT TRANSIT WAY (NEAR POST OFFICE) TANK TRUCK (CARGO) OTTAWA CITY ON

Database:
SPL

Ref No: 76621
Site No:
Incident Dt: 9/22/1992
Year:
Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:

Incident Cause:	TRUCK/TRAILER OVERTURN	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	NOT ANTICIPATED	Site Municipality:	20101
Nature of Impact:		Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	F.D., FRANCIS WASTE MGT.
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	9/22/1992	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	UNKNOWN	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	ULTRAMAR GASOLINE TANKER - UNKNOWN QUANTITY GAS FROM MOTOR TO ROAD.		
Contaminant Qty:			

Site: **ESSO PETROLEUM CANADA**
TRANSPORT TRUCK (CARGO) OTTAWA CITY ON

Database:
SPL

Ref No:	59519	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	11/7/1991	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	PIPE/HOSE LEAK	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	NOT ANTICIPATED	Site Municipality:	20101
Nature of Impact:		Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	11/7/1991	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	ERROR	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	ESSO-3 LITRES DIESEL FUEL TO GRND UNDER LOADING RACK, COUPLING NOT CLOSED		
Contaminant Qty:			

Site: **ESSO PETROLEUM CANADA**
TANK TRUCK (CARGO) OTTAWA CITY ON

Database:
SPL

Ref No:	47843	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	3/19/1991	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	PIPE/HOSE LEAK	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	NOT ANTICIPATED	Site Municipality:	20101
Nature of Impact:		Site Lot:	

Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	3/20/1991	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	ERROR	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	ESSO HOME COMFORT - TANK TRUCK SPILLED APPROX 1 L.HEATING OIL ON GROUND		
Contaminant Qty:			

Site:	GLOUCESTER HYDRO	Database:
	UPLANDS MS SUBSTATION ON UPLANDS DRIVE TRANSFORMER GLOUCESTER CITY ON	SPL

Ref No:	87910	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	7/3/1993	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	COOLING SYSTEM LEAK	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	POSSIBLE	Site Municipality:	20105
Nature of Impact:	Soil contamination	Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	7/3/1993	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	STORM/FLOOD/WIND	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	GLOUCESTER HYDRO-UNK QTY NON-PCB OIL TO LAND FROM TRANSFORMER: LIGHTNING		
Contaminant Qty:			

Site:	ESSO PETROLEUM CANADA	Database:
	OTTAWA AIRPORT TANK TRUCK (CARGO) OTTAWA CITY ON	SPL

Ref No:	99461	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	5/4/1994	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	VALVE/FITTING LEAK OR FAILURE	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	NOT ANTICIPATED	Site Municipality:	20101
Nature of Impact:		Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	5/4/1994	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	ERROR	Source Type:	
Site Name:			
Site County/District:			

Site Geo Ref Meth:
Incident Summary:
Contaminant Qty:

ESSO PETROLEUM: 2 L JET A-1 FUEL TO PAVEMENT FROM TANK TRUCK.

Site: ONTARIO HYDRO
LOT 5 CONC 2 HUNTLEY TWP. TRANSFORMER OTTAWA-CARLETON R.M. ON

Database:
SPL

Ref No:	28839	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	12/13/1989	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	COOLING SYSTEM LEAK	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	NOT ANTICIPATED	Site Municipality:	20000
Nature of Impact:		Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	12/13/1989	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	EQUIPMENT FAILURE	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	ONT.HYDRO - 100 LTR OIL TO SNOW FROM TRANSFORMER.NON-PCB.		
Contaminant Qty:			

Site: ESSO PETROLEUM CANADA
ESSO DISTRIBUTION STATION BULK STATION OTTAWA CITY ON

Database:
SPL

Ref No:	46877	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	2/21/1991	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	CONTAINER OVERFLOW	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	NOT ANTICIPATED	Site Municipality:	20101
Nature of Impact:		Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	2/21/1991	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	ERROR	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	ESSO DISTRIB. STATION - 50 L FURNACE OIL SPILLED TO LOADING DOCK. OV/FILL.		
Contaminant Qty:			

Site: ESSO PETROLEUM CANADA
BULK STATION OTTAWA CITY ON

Database:
SPL

Ref No:	155190	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	5/1/1998	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	OTHER CAUSE (N.O.S.)	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	NOT ANTICIPATED	Site Municipality:	20101
Nature of Impact:		Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	5/1/1998	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	NEGLIGENCE (APPARENT)	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	ESSO-156 L DIESEL TO LOT,LOADING ARM NOT IN TRUCKSCOMPARTMENT,PUMP STARTED.		
Contaminant Qty:			

Site:	lot 4 con 2 ON	Database:	WWIS
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Well ID:	1536506	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Domestic	Date Received:	8/1/2006
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	4006
Casing Material:		Form Version:	2
Audit No:	235230	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	15000
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	004
Well Depth:		Concession:	02
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	11550572	Elevation:	
DP2BR:	34	Elevrc:	
Spatial Status:		Zone:	
Code OB:	r	East83:	
Code OB Desc:	Bedrock	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	3/4/2004	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock
Materials Interval

Formation ID: 933066014
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 8
Formation End Depth: 21
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 933066017
Layer: 5
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 40
Formation End Depth: 140
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 933066015
Layer: 3
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 05
Mat2 Desc: CLAY
Mat3:
Mat3 Desc:
Formation Top Depth: 21
Formation End Depth: 34
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 933066016
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 71
Mat2 Desc: FRACTURED
Mat3:
Mat3 Desc:
Formation Top Depth: 34

Formation End Depth: 40
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 933066013
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 8
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933299444
Layer: 1
Plug From: 40
Plug To: 0
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961536506
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 11560179
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930884701
Layer: 3
Material:
Open Hole or Material:
Depth From: 40
Depth To: 140
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930884700
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From: -2
Depth To: 40
Casing Diameter: 6

Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930884699
Layer: 1
Material:
Open Hole or Material:
Depth From: 0
Depth To: 40
Casing Diameter: 10
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 11569551
Pump Set At: 60
Static Level: 12
Final Level After Pumping: 21
Recommended Pump Depth:
Pumping Rate: 10
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN:
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 11662478
Test Type: Draw Down
Test Duration: 45
Test Level: 18
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 11662476
Test Type: Draw Down
Test Duration: 15
Test Level: 14.3
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 11662477
Test Type: Draw Down
Test Duration: 30
Test Level: 16.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 11662479
Test Type: Draw Down
Test Duration: 60
Test Level: 21
Test Level UOM: ft

Water Details

Water ID: 934078358
Layer: 2
Kind Code:
Kind:
Water Found Depth: 129
Water Found Depth UOM: ft

Water Details

Water ID: 934078359
Layer: 1
Kind Code:
Kind:
Water Found Depth: 93
Water Found Depth UOM: ft

Site:

lot 5 ON

Database:
[WWIS](#)

Well ID: 1520605
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: NA
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/12/1986
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 005
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10042447
DP2BR: 63
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 6/25/1986
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931045290
Layer: 1

Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 10
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931045293
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 63
Formation End Depth: 84
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931045292
Layer: 3
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 50
Formation End Depth: 63
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931045291
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 10
Formation End Depth: 50
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961520605
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10591017
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930074087
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 63
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930074088
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 84
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991520605
Pump Set At:
Static Level: 20
Final Level After Pumping: 50
Recommended Pump Depth: 50
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 15
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934906159
Test Type:
Test Duration: 60
Test Level: 50
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934112491
Test Type:
Test Duration: 15
Test Level: 50
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934648377
Test Type:
Test Duration: 45
Test Level: 50
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934387354
Test Type:
Test Duration: 30
Test Level: 50
Test Level UOM: ft

Water Details

Water ID: 933477897
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 78
Water Found Depth UOM: ft

Site:

lot 4 ON

Database:
WWIS

Well ID: 1524123
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 56300
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 1/26/1990
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 004
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10045895
DP2BR: 56
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 9/14/1989
Remarks:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock
Materials Interval

Formation ID: 931056931
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 28
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931056933
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 56
Formation End Depth: 84
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931056932
Layer: 2
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 13
Mat2 Desc: BOULDERS
Mat3:
Mat3 Desc:
Formation Top Depth: 28
Formation End Depth: 56
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961524123
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10594465
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930080343
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 59
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930080344
Layer: 2
Material: 3
Open Hole or Material: CONCRETE
Depth From:
Depth To: 84
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991524123
Pump Set At:
Static Level: 20
Final Level After Pumping: 75
Recommended Pump Depth: 75
Pumping Rate: 7
Flowing Rate:
Recommended Pump Rate: 7
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934391933
Test Type:
Test Duration: 30
Test Level: 75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934107704
Test Type:
Test Duration: 15
Test Level: 75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934652483
Test Type:
Test Duration: 45
Test Level: 75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934910103
Test Type:
Test Duration: 60
Test Level: 75
Test Level UOM: ft

Water Details

Water ID: 933482665
Layer: 1
Kind Code: 3
Kind: SULPHUR
Water Found Depth: 78
Water Found Depth UOM: ft

Site: lot 4 ON Database: WWIS

Well ID:	1530022	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	6/11/1998
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	6455
Casing Material:		Form Version:	1
Audit No:	180720	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	GLOUCESTER TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	004
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	LI
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10051557	Elevation:	
DP2BR:	54	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	
Code OB Desc:	Bedrock	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	5/22/1998	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock
Materials Interval

Formation ID: 931074231
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 78
Mat2 Desc: MEDIUM-GRAINED
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 54
Formation End Depth: 70
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931074230
Layer: 3
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Mat2 Desc: SAND
Mat3: 14
Mat3 Desc: HARDPAN
Formation Top Depth: 36
Formation End Depth: 54
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931074228
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 81
Mat2 Desc: SANDY
Mat3: 88
Mat3 Desc: THICK
Formation Top Depth: 0
Formation End Depth: 25
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931074229
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 88
Mat2 Desc: THICK
Mat3:
Mat3 Desc:
Formation Top Depth: 25

Formation End Depth: 36
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933115138
Layer: 1
Plug From: 0
Plug To: 21
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961530022
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10600127
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930089821
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 70
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930089820
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 54
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991530022
Pump Set At:
Static Level: 17
Final Level After Pumping: 26
Recommended Pump Depth: 40
Pumping Rate: 50
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR

Pumping Test Method: 2
Pumping Duration HR: 12
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934392215
Test Type:
Test Duration: 30
Test Level: 26
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934909911
Test Type:
Test Duration: 60
Test Level: 26
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934661373
Test Type:
Test Duration: 45
Test Level: 26
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934117237
Test Type:
Test Duration: 15
Test Level: 26
Test Level UOM: ft

Water Details

Water ID: 933490035
Layer: 1
Kind Code: 4
Kind: MINERIAL
Water Found Depth: 66
Water Found Depth UOM: ft

Site:

lot 5 ON

Database:
WWIS

Well ID: 1530295
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 192714
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:

Data Entry Status:
Data Src: 1
Date Received: 11/24/1998
Selected Flag: Yes
Abandonment Rec:
Contractor: 1119
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 005
Concession:
Concession Name: LI
Easting NAD83:

Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10051830
DP2BR: 30
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 8/11/1998
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

**Overburden and Bedrock
Materials Interval**

Formation ID: 931075083
Layer: 2
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 22
Formation End Depth: 30
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931075084
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 30
Formation End Depth: 80
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931075082
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY

Mat2: 13
Mat2 Desc: BOULDERS
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 22
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933115430
Layer: 1
Plug From: 2
Plug To: 38
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961530295
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10600400
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930090315
Layer: 3
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 80
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930090314
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 38
Casing Diameter: 8
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930090313
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 36
Casing Diameter: 6

Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991530295
Pump Set At:
Static Level: 25
Final Level After Pumping: 65
Recommended Pump Depth: 65
Pumping Rate: 18
Flowing Rate:
Recommended Pump Rate: 18
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934118296
Test Type: Recovery
Test Duration: 15
Test Level: 25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934662434
Test Type: Recovery
Test Duration: 45
Test Level: 25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934392863
Test Type: Recovery
Test Duration: 30
Test Level: 25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934910978
Test Type: Recovery
Test Duration: 60
Test Level: 25
Test Level UOM: ft

Water Details

Water ID: 933490361
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 66
Water Found Depth UOM: ft

Water Details

Water ID: 933490362
Layer: 3
Kind Code: 1
Kind: FRESH
Water Found Depth: 74
Water Found Depth UOM: ft

Water Details

Water ID: 933490360
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 57
Water Found Depth UOM: ft

Site:

lot 5 ON

Database:
[WWIS](#)

Well ID: 1500377
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 2/26/1948
Selected Flag: Yes
Abandonment Rec:
Contractor: 1107
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: OTTAWA CITY (GLOUCESTER)
Site Info:
Lot: 005
Concession:
Concession Name: JG
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10022422
DP2BR: 28
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 7/24/1947
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 930989112
Layer: 1
Color: 2
General Color: GREY
Mat1: 09

Most Common Material: MEDIUM SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 15
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 930989114
Layer: 3
Color: 2
General Color: GREY
Mat1: 19
Most Common Material: SLATE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 28
Formation End Depth: 89
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 930989113
Layer: 2
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 15
Formation End Depth: 28
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961500377
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10570992
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930037777
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 28

Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930037778
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 89
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991500377
Pump Set At:
Static Level: 12
Final Level After Pumping: 24
Recommended Pump Depth:
Pumping Rate: 8
Flowing Rate:
Recommended Pump Rate: 8
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 0
Pumping Duration MIN: 30
Flowing: No

Water Details

Water ID: 933452894
Layer: 1
Kind Code: 4
Kind: MINERIAL
Water Found Depth: 89
Water Found Depth UOM: ft

Site:
lot 5 ON

Database:
[WWIS](#)

Well ID: 1530916
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 210553
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 12/17/1999
Selected Flag: Yes
Abandonment Rec:
Contractor: 1119
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 005
Concession:
Concession Name: LI
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID:	10052450	Elevation:	
DP2BR:	37	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	
Code OB Desc:	Bedrock	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	10/18/1999	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock**Materials Interval**

Formation ID:	931076939
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	37
Formation End Depth UOM:	ft

Overburden and Bedrock**Materials Interval**

Formation ID:	931076940
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	37
Formation End Depth:	60
Formation End Depth UOM:	ft

Annular Space/Abandonment**Sealing Record**

Plug ID:	933116087
Layer:	1
Plug From:	2
Plug To:	46
Plug Depth UOM:	ft

Method of Construction & Well**Use**

Method Construction ID:	961530916
--------------------------------	-----------

Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10601020
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930091618
Layer: 3
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 60
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930091616
Layer: 1
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 44
Casing Diameter: 8
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930091617
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 46
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991530916
Pump Set At:
Static Level: 23
Final Level After Pumping: 50
Recommended Pump Depth: 50
Pumping Rate: 21
Flowing Rate:
Recommended Pump Rate: 21
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934903818
Test Type: Recovery
Test Duration: 60
Test Level: 23
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934119528
Test Type: Recovery
Test Duration: 15
Test Level: 23
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934386266
Test Type: Recovery
Test Duration: 30
Test Level: 23
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934664639
Test Type: Recovery
Test Duration: 45
Test Level: 23
Test Level UOM: ft

Water Details

Water ID: 933491217
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 50
Water Found Depth UOM: ft

Site:
lot 5 ON

Database:
[WWIS](#)

Well ID:	1530720	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	9/22/1999
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	1119
Casing Material:		Form Version:	1
Audit No:	210452	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	GLOUCESTER TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	005
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	LI
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10052254	Elevation:	
DP2BR:	34	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	
Code OB Desc:	Bedrock	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	7/29/1999	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock**Materials Interval**

Formation ID:	931076391
Layer:	3
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	34
Formation End Depth:	80
Formation End Depth UOM:	ft

Overburden and Bedrock**Materials Interval**

Formation ID:	931076389
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	28
Formation End Depth UOM:	ft

Overburden and Bedrock**Materials Interval**

Formation ID:	931076390
Layer:	2
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	28

Formation End Depth: 34
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933115862
Layer: 1
Plug From: 2
Plug To: 40
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961530720
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10600824
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930091186
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 38
Casing Diameter: 9
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930091187
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 40
Casing Diameter: 9
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930091188
Layer: 3
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 80
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991530720
Pump Set At:
Static Level: 25
Final Level After Pumping: 70
Recommended Pump Depth: 70
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 20
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934664204
Test Type: Recovery
Test Duration: 45
Test Level: 25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934120065
Test Type: Recovery
Test Duration: 15
Test Level: 25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934903241
Test Type: Recovery
Test Duration: 60
Test Level: 25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934385686
Test Type: Recovery
Test Duration: 30
Test Level: 25
Test Level UOM: ft

Water Details

Water ID: 933490946
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 73
Water Found Depth UOM: ft

Site:

lot 5 ON

Database:
[WWIS](#)

Well ID: 1530475
Construction Date:
Primary Water Use: Domestic

Data Entry Status:
Data Src: 1
Date Received: 3/2/1999

Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 197136
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Selected Flag: Yes
Abandonment Rec:
Contractor: 1119
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 005
Concession:
Concession Name: LI
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10052010
DP2BR: 57
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 11/12/1998
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931075618
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 32
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931075619
Layer: 2
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 13
Mat3 Desc: BOULDERS
Formation Top Depth: 32

Formation End Depth: 57
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931075620
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 57
Formation End Depth: 80
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933115622
Layer: 1
Plug From: 2
Plug To: 63
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961530475
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10600580
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930090702
Layer: 3
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 80
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930090701
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 63
Casing Diameter: 6

Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930090700
Layer: 1
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 61
Casing Diameter: 8
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991530475
Pump Set At:
Static Level: 21
Final Level After Pumping: 70
Recommended Pump Depth: 70
Pumping Rate: 13
Flowing Rate:
Recommended Pump Rate: 13
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934663010
Test Type: Recovery
Test Duration: 45
Test Level: 21
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934385047
Test Type: Recovery
Test Duration: 30
Test Level: 21
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934118871
Test Type: Recovery
Test Duration: 15
Test Level: 21
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934902180
Test Type: Recovery
Test Duration: 60
Test Level: 21
Test Level UOM: ft

Water Details

Water ID: 933490624
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 70
Water Found Depth UOM: ft

Site:

lot 5 ON

Database:

[WWIS](#)

Well ID: 1530296
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 182440
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 11/24/1998
Selected Flag: Yes
Abandonment Rec:
Contractor: 1119
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 005
Concession:
Concession Name: LI
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10051831
DP2BR: 27
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 8/11/1998
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931075085
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 13
Mat3 Desc: BOULDERS
Formation Top Depth: 0
Formation End Depth: 27

Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931075086
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 27
Formation End Depth: 61
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933115431
Layer: 1
Plug From: 3
Plug To: 35
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961530296
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10600401
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930090318
Layer: 3
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 61
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930090316
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 33
Casing Diameter: 6
Casing Diameter UOM: inch

Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930090317
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 35
Casing Diameter: 8
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991530296
Pump Set At:
Static Level: 21
Final Level After Pumping: 50
Recommended Pump Depth: 50
Pumping Rate: 24
Flowing Rate:
Recommended Pump Rate: 24
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934118297
Test Type: Recovery
Test Duration: 15
Test Level: 21
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934910979
Test Type: Recovery
Test Duration: 60
Test Level: 21
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934662435
Test Type: Recovery
Test Duration: 45
Test Level: 21
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934392864
Test Type: Recovery
Test Duration: 30
Test Level: 21
Test Level UOM: ft

Water Details

Water ID: 933490363
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 44
Water Found Depth UOM: ft

Water Details

Water ID: 933490365
Layer: 3
Kind Code: 5
Kind: Not stated
Water Found Depth: 52
Water Found Depth UOM: ft

Water Details

Water ID: 933490364
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 50
Water Found Depth UOM: ft

Appendix: Database Descriptions

*Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. **Note:** Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory:

Provincial

[AAGR](#)

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial

[AGR](#)

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2020

Abandoned Mine Information System:

Provincial

[AMIS](#)

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites:

Private

[ANDR](#)

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial

[AST](#)

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private

[AUWR](#)

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Dec 31, 2020

Borehole:

Provincial

[BORE](#)

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2018

Commercial Fuel Oil Tanks:

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Chemical Manufacturers and Distributors:

Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Dec 31, 2020

Compressed Natural Gas Stations:

Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Dec 2020

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Nov 2020

Certificates of Property Use:

Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994-Mar 31, 2021

Drill Hole Database:

Provincial

[DRL](#)

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks:

Provincial

[DTNK](#)

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Jul 31, 2020

Environmental Activity and Sector Registry:

Provincial

[EASR](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval). Please see our ECA database.

Government Publication Date: Oct 2011-Mar 31, 2021

Environmental Registry:

Provincial

[EBR](#)

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994-Mar 31, 2021

Environmental Compliance Approval:

Provincial

[ECA](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011- Mar 31, 2021

Environmental Effects Monitoring:

Federal

[EEM](#)

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private

[EHS](#)

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Jan 31, 2021

Environmental Issues Inventory System:

Federal

[EIIS](#)

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial

EMHE

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial

EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2020

List of Expired Fuels Safety Facilities:

Provincial

EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Federal Convictions:

Federal

FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal

FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Jan 2021

Fisheries & Oceans Fuel Tanks:

Federal

FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal

FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank:

Provincial

FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Fuel Storage Tank - Historic:

Provincial

FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Jan 31, 2021

Greenhouse Gas Emissions from Large Facilities:

Federal

GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO₂ eq).

Government Publication Date: 2013-Dec 2018

TSSA Historic Incidents:

Provincial

HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing is a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Landfill Inventory Management Ontario:

Provincial

LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations:

Private

MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Dec 2020

National Analysis of Trends in Emergencies System (NATES):

Federal

NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2018

National Defense & Canadian Forces Fuel Tanks:

Federal

NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal

NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

NEBI

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Dec 31, 2020

National Energy Board Wells:

Federal

NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003***National PCB Inventory:**

Federal

NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008***National Pollutant Release Inventory:**

Federal

NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017**Oil and Gas Wells:**

Private

OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Feb 28, 2021**Ontario Oil and Gas Wells:**

Provincial

OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Jun 2020**Inventory of PCB Storage Sites:**

Provincial

OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013**Orders:**

Provincial

ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Mar 31, 2021**Canadian Pulp and Paper:**

Private

PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014**Parks Canada Fuel Storage Tanks:**

Federal

PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011-Mar 31, 2021

Pipeline Incidents:

Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing is an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 31, 2020

Private and Retail Fuel Storage Tanks:

Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994-Mar 31, 2021

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-2016

Record of Site Condition:

Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.

RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Mar 2021

Retail Fuel Storage Tanks:

Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Dec 31, 2020

Scott's Manufacturing Directory:

Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Mar 2020; Jul 2020 - Aug 2020

Wastewater Discharger Registration Database:

Provincial

[SRDS](#)

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2017

Anderson's Storage Tanks:

Private

[TANK](#)

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal

[TCFT](#)

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks:

Provincial

[VAR](#)

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Waste Disposal Sites - MOE CA Inventory:

Provincial

[WDS](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011-Mar 31, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

[WDSH](#)

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30th, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

[WWIS](#)

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Apr 30, 2020

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Mandy Witteman, M.A.Sc., P.Eng. Intermediate Environmental Engineer

Mandy joined Paterson Group in June 2018 as part of the Environmental Department. Mandy received her Bachelor of Engineering from Carleton University in 2008, specializing in Environmental Engineering. Following graduation, Mandy gained experience in the private sector conducting Phase II ESAs and reporting GHG emission inventories. In 2009, Mandy began her post-graduate degree in a Master of Applied Science, specializing in applied unsaturated soil mechanics with applications to geomechanical designs of subsurface tailing structures. Mandy has published in the Canadian Geotechnical Journal, as well as the International Conference Geo/Paste Proceedings in 2010 and 2011. Following post-graduate, Mandy joined the Tailings Group at Thurber Engineering Ltd. in Calgary, where she applied knowledge gained from her post-graduate research in designing and developing bench scale and pilot programs that were implemented by oil sand operators in Fort McMurray. Additionally, Mandy also worked as a QA/QC engineer on a slurry wall construction at a Potash Mine. Her scope of work included daily in-situ testing of the construction materials used for QA/QC purposes, as well as managing and supervising daily construction activities. Since joining Paterson Group in 2018, Mandy has worked on numerous residential and commercial developments, predominantly within the National Capital Region. Her scope of work consists of managing and conducting Phase I and II ESAs, reporting and managing subsurface programs, and liaising with subcontractors, clients and consultants.

EDUCATION

Bachelor of Engineering in
Environmental Engineering, 2008
Carleton University
Ottawa, Ontario

Master of Applied Science in
Environmental Engineering, 2013
Carleton University
Ottawa, Ontario

ASSOCIATIONS/AFFILIATIONS

Ontario Professional Engineers
Association

Ottawa Geotechnical Group

YEARS OF EXPERIENCE

Paterson Group: 4

Thurber Engineering: 2

Carleton University: 4

SELECT LIST OF PROJECTS

- Grey Hound Bus Terminal: 265 Catherine Street, Ottawa, ON (Phase I – II ESAs, Remediation Action Plan)
- Residential Development: 550 King Street West, Brockville, ON (Phase I ESA - Enhanced Investigation Property, Phase II ESA)
- Redevelopment Project: 10 McArthur Avenue, Ottawa, ON (Phase I & II ESAs, Record of Site Condition)
- Mixed-Use Redevelopment Project: 438 Albert Street, Ottawa, ON (Phase I & II ESAs, Record of Site Condition)
- Mixed-Use Redevelopment Project: 900 Albert Street, Ottawa, ON (Phase II ESA)
- Mixed-Use Redevelopment Project: 108 Nepean Street, Ottawa, ON (Phase I & II ESAs, Record of Site Condition)
- Mixed-Use Redevelopment Project: 450 Rochester Street, Ottawa, ON (Phase I & II ESAs, Record of Site Condition)
- Mixed-Use Redevelopment Project: 829 Carling Avenue, Ottawa, ON (Phase I & II ESAs)

Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

POSITION

Intermediate Environmental Engineer

EDUCATION

Carleton University, B.Eng. 2002
Environmental Engineering

MEMBERSHIPS AND AWARDS

Professional Engineers of Ontario
Ottawa Geotechnical Society

EXPERIENCE

2011-present

Paterson Group Inc.

Consulting Engineers
Geotechnical and Environmental Division
Intermediate Engineer

2009-2010

Department of Indian and Northern Affairs

Contaminated Sites Division
Environment Officer (PC-02)

2003 to 2009

Paterson Group Inc.

Consulting Engineers
Geotechnical and Environmental Division
Intermediate Engineer

2002 to 2003

Dessau Soprin Inc.

Consulting Engineers
Environmental Division
Junior Engineer

SELECT LIST OF PROJECTS

Billings-Hurdman Interconnect Watermain - Ottawa
Telus Building Remediation - Ottawa
Block D Lands Remediation and Redevelopment – Kingston
Gladstone Avenue Reconstruction - Ottawa
Lees Avenue Coal Tar Site - City of Ottawa
Nortel Networks Environmental Monitoring Program
3W Zone Feedermain – Ottawa
Bank Street Reconstruction – Ottawa
Lees Avenue Remediation Program – Ottawa
Colonnade Road North Development – Ottawa
Montreal Road Reconstruction – Ottawa
Designated Substance Surveys – Residential and Commercial Sites - Ottawa
Phase I & II Environmental Site Assessments – Residential, Commercial and Industrial Sites – Ottawa (CSA Z768-01 and O.Reg 269/11)
Brownfields Applications and Records of Site Condition – Residential and Commercial Redevelopment